M. E. LEACH REPAIR SHOP
JEWELL, OHIO

The Mossman-Yarnelle Co.

Wholesalers Since 1882

Pearl Street and Maiden Lane **Phone Anthony 6315**

Fort Wayne, Indiana

Mechanic's Tool Catalogue

Every Type of Mechanic's Tools *for*

- **Factories**
- **Foundries**
- **Machine Shops**
- **Garages**
- **Contractors**
- **Body and Top Shops**
- **Upholsterers**

No. 31-T

"The Big Supply House"

This is Our

Mechanic's Tool Catalogue

It will prove profitable to you to ask for our different catalogues covering

14 Mammoth Departments

Steel Bars, Sheets, Angles Beams, etc., Copper Sheets

Automobile Accessories

Automobile Replacement Parts

Automobile Trimmings

Automobile Batteries

Automobile Tires and Tubes

Acetylene and Electric Welding Supplies

Ironsmiths' Supplies

Home Electrical Equipment

Upholsterers' Supplies

Ding Shop Supplies and Equipment

Garage and Shop Equipment

Shop Supplies

The Mossman-Yarnelle Co.

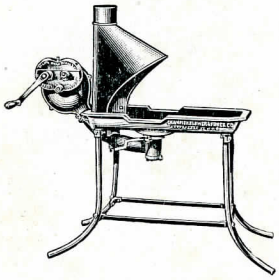
B. Paul Mossman, President — **W. Page Yarnelle, Vice-President**
Ernest H. Roembke, Treasurer — **Harry E. C. Miller, Secretary**
William S. Mossman, Ass't Treasurer

Fort Wayne, Indiana

W. B. LEACH REPAIR SHOP
JEWELL, OHIO

THE CHAMPION EUREKA GEARED FORGES

With Pressed Steel Hearth
Size of Hearth, 23 x 35 Inches
Fan, 10 Inches in Diameter



No. 143-S Forge with Half Hood for indoor work is a good light-weight, medium-sized forge for garage work, such as welding iron, preheating, melting babbitt, etc.

The Gears are cut and lay in a bath of oil, in an oil-tight, dust-proof gear case.

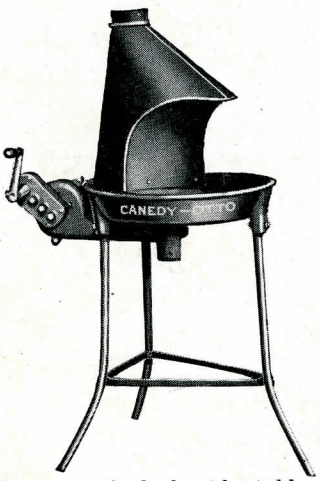
Crank turns either direction to produce blast, and these Forges are silent running and durable; and will do all the forge work the average garage ever gets.

This Forge is supplied with Ball Tuyere Iron, which is set deep, so a large fire can be produced in the pan, which is roomy and made to take bar work, so axles can be straightened or welded when necessary.

No.	Hearth	Fan	Height	Weight
143S	23x35″	10″	30″	145 lbs.

Net Price, each $23.50

C-O FORGE NO. 1051



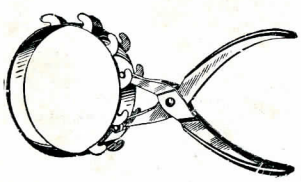
The C.-O. Forge No. 1051 is of the latest agricultural design, incorporating in its construction a positive blast power, gear driven, to take the place of the pump lever, and belt driven forge at a lower cost. This distinctive C-O design will eventually eliminate the belt driven forge in the same manner as the gear driven blower the bellows type of blast, inasmuch as all parts are encased, leaving no working mechanism exposed, which makes the forge particularly adaptable for outside work.

Light, durable, forge featuring gear driven blower. Crank turns forward or backward. Capacity to heat 4-inch iron.

Blower, 8 inches. Hearth, 19x15 inches.

Net Price, each $9.50

VICTORY PISTON RING COMPRESSOR



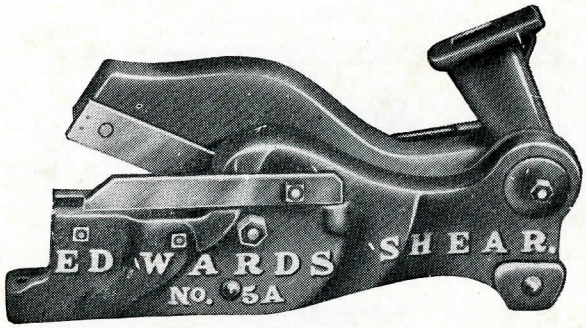
Instantaneously Adjustable

The Victory is the only Compressor which is instantaneously adjustable to fit all sizes of Automobile Piston Rings, from 2¾ inches to 9 inches.

The adjustment is made in less time than it takes to tell it — merely the insertion of the band into the nose of the pliers which are a part of the tool. No complicated set screws to adjust and set.

Net Price, each $1.00

EDWARDS' SHEARS



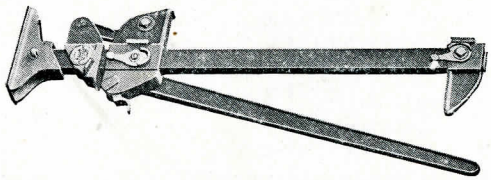
No Handle Furnished

Will cut 4x½ inch flat and ¾ inch round, or plow steel 6½x¼ inch. Knives are 7 inches long for trimming and cutting out corn plow shovels, seeder points, etc. Weight, 200 lbs.

Net Price, each, No. 5—Less Handle $26.00
Net Price,, each, No. 10, will cut 4x¾ flat or ¾ round—Less Handle 46.50
Extra for Handle for No. 5, net each 2.80
Extra for Handle for No. 10, net each 3.20
Extra Knives, per pair, net 3.50

UTILEVER

For Pulling — Pushing — Spreading — Clamping
All Purpose Pressure Tool with 5,000 lbs. Leverage



UTILEVER FOR REMOVING SPRINGS

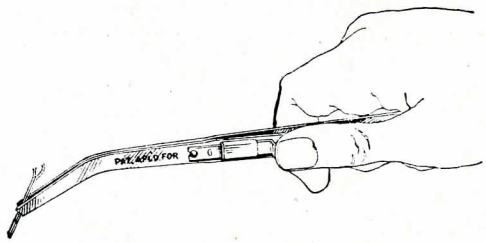
Used for jacking up frames to take the weight off springs, permitting easy access for the purpose of disassembling, removing leaves, lubrication, etc. Also used in the assembling of springs as a clamping tool.

UTILEVER AS A STRAIGHTENER

For straightening frames, axles, tie rods, cross members, etc., without the aid of a skilled mechanic, and generally without disassembling or otherwise disturbing the motor.

Size 24″ with full set assessories, complete **$29.50** Net
Size 36″ with full set assessories, complete **31.50** Net
Size 48″ with full set accessories, complete **33.50** Net
Size 72″ with full set accessories, complete **37.50** Net

VICTORY LOCKING TWEEZER

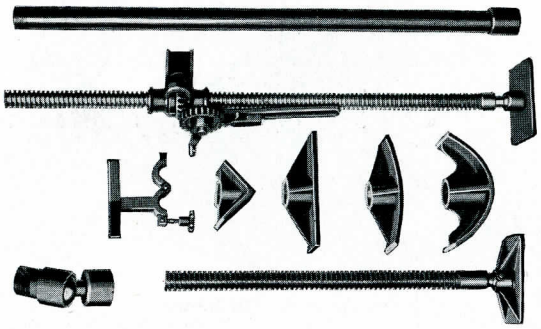


The Victory Locking Tweezer is used for putting in and pulling out Valve Pins, Cotter Pins, Shims, Ball Bearings, reaching into crankcase and for a hundred other similar operations. This Tweezer is 9 inches long and is made of high grade **spring steel.** It is so designed that the jaws will hold fast any object up to 1¾ inches in diameter.

Net Price, each .....$ .40

THE PERFECTION BODY TOOL

"Just what the name implies"



A series of screw jacks with various shaped heads conforming with body lines.

Constructed of 1¼-inch machined steel screw, with swivel base, allowing it to be placed at any desired angle. Heavy malleable castings throughout, thereby eliminating any possible breakage.

Length of screws 1½ and 3 feet respectively. Length overall with pipe extension, 6 feet. Closed length of tool with pipe extension 3½ feet.

Short screw used for close work such as cowls, wheel-housings, etc.

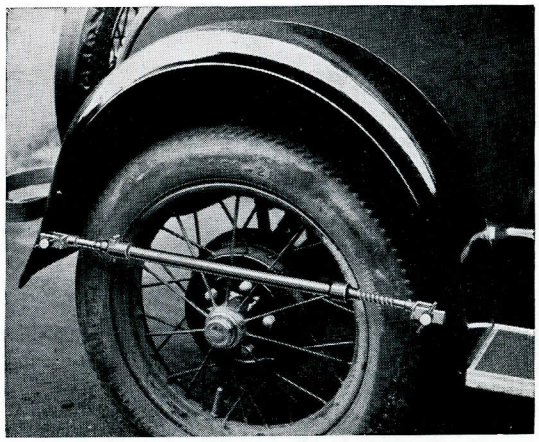
Indispensable for aligning:

Steel bodies,
Door posts,
Windshield posts,
Fender brackets,
Bumper brackets,
Wheel-housings,
Side panels,
Radiators,
Askewed frames, etc.

Net Price, each **$29.50**

PERFECTION FENDER SHRINKING TOOL

"Just What the Name Implies"



Simplicity in Itself — The Perfection Fender Shrinking Tool eliminates slip-shod work, holds fender in exact position for aligning and shrinking.

The Perfection Fender Shrinking Tool embodies every need into one tool, by simply turning bar forward for pulling, backward for pushing.

Constructed of the best materials — compact for speed. No loose ends to snap or break, always ready for immediate service. A drop of oil or grease on screw and adjusting ratchet insures years of perfect service.

Dimensions, 42 inches overall, which amply provides positive adjustment on all type fenders.

Net Price, each **$7.50**

PERFECTION FRAME STRAIGHTENER

Ask For
COMPLETE DESCRIPTION
On This
POPULAR TOOL FOR
Garages and Ding Shops

WILLIAMS' "VULCAN"

Drop-Forged Heavy Service "C" Clamps

For Machine Shops

Capacity	Depth of Throat	List Price Each
¾	¾	$ 1.00
1¼	1⅛	1.50
1¾	1½	2.50
2¼	1¾	3.50
3¼	2⅜	5.00
4½	2¾	6.50
5½	3⅛	8.00
6½	3⅜	10.00
8½	3¾	14.00

WILLIAMS' "AGRIPPA"

Drop-Forged General Service "C" Clamps

For Machine Shops

Capacity	Depth of Throat	List Price Each
4	2⅜	$ 4.50
6	2½	5.50
8	2⅝	6.50
10	2¾	7.50
12	2⅞	8.50

CLAMPS

Carriage — Body — Special Perfection Long Arm — Quick Clamps and Clamp Attachments

SEE OUR SHOP SUPPLY CATALOGUE— PAGE 320

VIXEN FILES

Standard Cut

Aluminum Castings, All Soft Metals, Brass, Cast Iron, Copper, Soft Steel, Fibre, Marble, Hard Rubber, Slate, Wood.

Fine Cut

Aluminum Sheet, Phosphor Bronze, Steel, All Hard Metal, White Brass.

Smooth Cut

Lathe Work, Finishing Hard Metals, Superior Finish, Die and Tool Work.

LIST PRICE PER DOZEN

	FLEXIBLE*				FLAT			HALF ROUND AND OVAL			
Inch	Standard	Fine	Smooth	Dead Smooth	Standard	Fine	Smooth	Dead Smooth	Standard	Fine	Smooth
8	$14.20	$17.10	$18.50	$19.50	$12.90	$15.50	$16.90	$17.90	$15.10	$17.80	$19.10
10	17.80	20.70	22.10	24.20	16.10	18.80	20.10	22.20	18.30	21.00	22.30
12	21.40	24.30	25.70	28.80	19.40	22.20	23.30	26.40	21.70	24.40	25.50
14	25.70	28.50	29.90	34.10	23.30	25.90	27.10	31.30	26.00	28.40	29.40
16	30.70	33.40	34.90	39.10	27.90	30.40	31.80	36.00	31.00	33.50	34.90
18	37.00	40.00	41.20	47.10	33.70	36.30	37.50	41.70	37.70	.....	.....

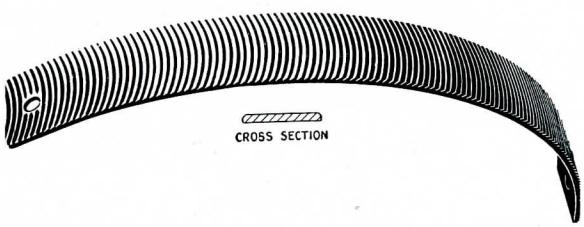
*Flexible files are cut on both sides and must be attached to a back when in use. One back given with each dozen flexible files of a size.

	PILLAR				SQUARE			UTILITY	BABBITT
Inch	Standard	Fine	Smooth	Dead Smooth	Standard	Fine	Smooth	Flat	Flat
8	$14.10	$17.00	$18.40	$20.10	$13.50	$16.30	$17.80	$14.80	$16.60
10	17.70	20.40	22.00	23.30	16.90	19.60	21.10	18.10	19.90
12	21.50	24.10	25.10	27.10	20.40	23.30	24.50	21.30	23.90
14	25.10	27.90	29.70	31.80	24.50	27.10	28.40	25.30	26.60
16	.....	.....	.....	.....	29.20	32.00	33.30	29.70	.....
18	.....	.....	.....	.....	35.30	38.10	39.40	.....	.....

	LIST PRICE PER DOZEN				MEASUREMENTS						
		Bolts & Nuts Per Doz.	Re-		FLAT		FLEXIBLE		SQUARE	PILLAR		HALF ROUND	
Inch	Backs	Sets	Sharpening	Length	Width	Thickness	Width	Thickness	Diam.	Width	Thickness	Width	Thickness
8	$7.20	$2.40	$2.70	8	23/32"	3/16"	13/16"	1/8"	1/4"	1/2"	1/4"	31/32"	1/8"
10	7.80	2.40	3.00	10	1"	7/32"	1"	1/8"	5/16"	5/8"	5/16"	1 1/8"	1/8"
12	8.40	2.40	3.40	12	1 17/64"	9/32"	1 3/16"	5/32"	3/8"	3/4"	3/8"	1 1/4"	1/8"
14	9.00	3.00	3.60	14	1 23/64"	5/16"	1 3/8"	3/16"	7/16"	7/8"	7/16"	1 3/8"	5/32"
16	9.60	3.00	3.99	16	1 35/64"	3/8"	1 5/16"	3/16"	1/2"	.....	.....	1 1/2"	5/32"
18	10.20	3.00	4.30	18	1 5/8"	13/32"	1 3/4"	3/16"	5/8"	.....	.....	1 9/16"	5/32"

TRUARC FILES FOR FENDER AND BODY WORK

TRUARC HALF CIRCLE FILE



Half Circle blade is made in the 14" regular cut with teeth on one side only. Is rigid, bent to a half circle of 8" radius. Especially designed for fender repair work. Takes 14" Flexible regular cut price.

TRUARC HALF ROUND SHELL FILE

A Half Round File of the shell type (to be attached to a back when in use), meets all conditions — where a **Milled Tooth** Half Round File is required.

Made in 8", 10", 12", 14" and 16" lengths, regular, fine and smooth cuts.

	List Price Per Dozen		
Inch	Regular	Fine	Smooth
8	$15.10	$17.80	$19.10
10	18.30	21.00	22.30
12	21.70	24.40	25.50
14	26.00	28.40	29.40
16	31.00	33.50	34.90

TRUARC CONCAVE FILE

At the request of the largest body builder in the country we made the Truarc Moulding File—as you will note from illustration, it is used for filing the moulding on bodies. Until we brought out this file, moulding was filed with a flat or flexible file, which left more or less of a "flat" on the moulding. The use of a Truarc Moulding File preserves the contour of the moulding. Indispensable in the better repair shops. Made in 10" and 12" lengths.

List Price Per Dozen

Length	
10"	$18.30
12"	21.70

TRUARC FLEXIBLE FILES

Flexible Files will be found in all of the important auto building plants throughout the country, where it is preferred to all other makes.

This fact in itself, we feel, will be sufficient endorsement of the merits of Truarc Files, to the Body Repair trade.

The Truarc Blade is cut on both sides and should be attached to a "back" when in use. This back may be straight or bent to any reasonable curve — the blade being flexible — will conform to the shape of the back, giving the convexity desired on many classes of work.

Made in regular, fine and smooth cuts and in all lengths. On Body Repair work the regular cut is used almost exclusively in the 12" and 14" lengths.

List Price Per Dozen

TRUARC FLEXIBLE

Length	Regular	Fine	Smooth
8"	$14.20	$17.10	$18.50
10"	17.80	20.70	22.10
12"	21.40	24.30	25.70
14"	25.70	28.50	29.90
16"	30.70	33.40	34.90
18"	37.00	40.00	41.20

TRUARC NARROW MOULDING FILES

A file you have long wanted.

A Narrow Flexible, for use between the two or more strips of moulding, as shown in illustration. Of the usual high grade Truarc quality and workmanship, this file will permit you to make a better job between the mouldings. You must have this long needed file.

Made in 14" length and three widths, ⅝", ¾" and 1" regular cut.

List Price Per Dozen

⅝" wide	$23.30
¾" wide	24.10
1 " wide	25.00

TRUARC ALL-PURPOSE FILES

Truarc Files are the fastest, cleanest cutting, non-clogging files known. Made by the only process which can produce "true arc" teeth — correct in spacing, rake of tooth, form and depth.

Truarc Flat Files are indispensable in automobile and auto body manufacturing plants. The regular cut is particularly adapted for use on cast aluminum, brass, copper, cast iron and all of the softer metals, as well as fibre, wood, slate, rubber, marble, etc. The fine cut file should be used on all the harder metals, such as steel, cast iron, phosphor bronze, white brass, etc. The smooth cut file should be used on all work where a superior finish is desired and for lathe, die and tool work.

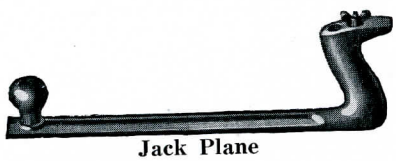
FLAT

Inch	Regular	Fine	Smooth
8	$12.90	$15.50	$16.90
10	16.10	18.80	20.10
12	19.40	22.20	23.30
14	23.30	25.90	27.10
16	27.90	30.40	31.80
18	33.70	36.30	37.50

NOLVEX HANDLES

Straight

Semi-Stright



Jack Plane

Nolvex Semi-Straight and Jack Plane Handles are made of heat treated aluminum which enables the operator to bend same to a desired curve and still retain this shape which cannot be done with common aluminum. By using this special alloy, a handle is produced as light as aluminum combined with the strength of steel.

Net Price, each, all Patterns $2.75

COLTON FILE CLEANER

No. 10. Steel Back, Frame and Face.

Price, net each ..... $ .50

BLACK DIAMOND AND ARCADE FILES

FLAT BASTARD

Sizes, Inches	4	6	8	10	12	14	16
List Price, Each...	$ .31	$ .36	$ .45	$ .59	$ .81	$1.11	$1.49

MILL FINE BASTARD

Sizes, Inches	4	6	8	10	12	14	16
List Price, Each...	$ .25	$ .30	$ .37	$ .47	$ .63	$ .90	$1.23

HALF ROUND BASTARD

Sizes, Inches	6	8	10	12	14	16
List Price, each....	$ .51	$ .63	$ .76	$ .99	$1.30	$1.72

SLIM AND EXTRA SLIM TAPER

Sizes, Inches	3½	4	4½	5	5½	6	7	8	10
List Price, Each	$.18	$.19	$.20	$.21	$.25	$.26	$.32	$.38	$.54

DOUBLE END TAPER

Sizes, Inches	6	8
List Price, each	$ .30	$ .33

TAPER SAW FILES

Single Cut

List Price, each	$ .22	$ .25	$ .30	$ .37	$ .45
Sizes, Inches	5	5½	6	7	8

BAND SAW FILES

Sizes, Inches	6	8
List Price, each, blunt	$ .40	$ .57
List Price, each, taper	$ .33	$ .45

ROUND BASTARD

Sizes, Inches	6	8	10	12	14	16
List Price, each....	$ .30	$ .36	$ .47	$ .63	$ .90	$1.23

SQUARE BASTARD

Sizes, Inches	6	8	10	12	14	16
List Price, each....	$ .39	$ .46	$ .62	$ .85	$1.16	$1.56

FLAT SMOOTH FILES

Sizes, Inches	6	8	10	12	14	16
List Price, each....	$ .45	$ .55	$ .73	$1.01	$1.40	$1.86

ROUND SMOOTH FILES

Sizes, Inches	4	6	8	10	12	14
List Price, each....	$ .33	$ .38	$ .45	$ .59	$ .79	$1.10

HALF ROUND SMOOTH FILES

Sizes, Inches	6	8	10	12	14
List Price, each	$ .60	$ .75	$ .90	$1.16	$1.53

FLAT WOOD FILES

Sizes, Inches	12	14	16
List Price, each	$ .99	$1.34	$1.80

HALF ROUND WOOD FILES

Sizes, Inches	12	14	16
List Price, each	$1.18	$1.55	$2.06

HALF ROUND WOOD RASP

Smooth Cut

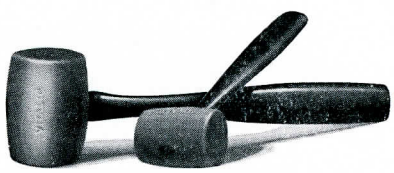
Sizes, Inches	12	14	16
List Price, each	$2.10	$2.75	$3.65

FLAT WOOD RASP

Smooth Cut

Sizes, Inches	12	14	16
List Price, each	$1.95	$2.57	$3.41

RUBBER MALLETS



No.	Length	Face	Weight	Net Price Each
2	3¼	2	12-oz.	$ .75
3	4	2⅝	24-oz.	1.05
4	4⅞	2⅝	40-oz.	1.50

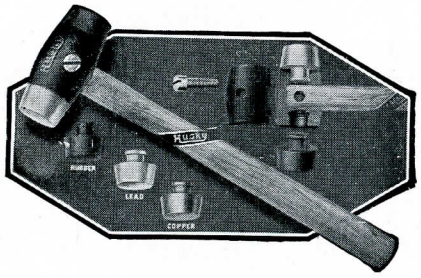
A very necessary tool in every shop.

HICKORY MALLETS

High grade in every respect. Thoroughly seasoned, with oval handles which prevents splitting.

Dia.	Length	Handle length	Price Each
2-in.	4-in.	10¾-in.	$ .20
2-in.	5-in.	10¾-in.	.25
3-in.	6-in.	11¾-in.	.45
4-in.	6-in.	14¾-in.	.75

HUSKY SOFT TIP HAMMERS



For garages, tire shops, radiator and battery shops, cylinder regrinding and fitting, body and fender repair, sheet metal and woodworking plants, railroads, and all assembly work.

Have interchangeable tips of rubber, lead, copper and composition, making them suitable for every purpose. The extra weight in the head increases the striking power and nullifies tiresome rebound when using resilient rubber tip.

Simple and rugged in design. Made of high grade materials. The rubber tip is of soft rubber and will not scratch surface. The lead tip is an alloy of lead and antimony. Copper tips made of electrolytic copper. The Composition tip is dense and tough and will outlast fibre, rawhile or lead.

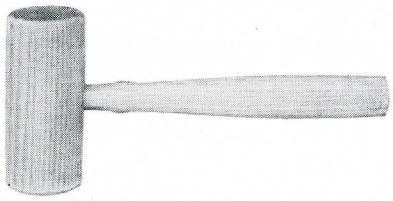
No. 1 R. C. Hammer set consists of one No. 1 hammer with two tips, one each of composition and rubber. No. 2 R. C. Hammer set consists of one No. 2 hammer with two tips, one each of composition and rubber.

SOFT-TIP HAMMERS
List Price Change Effective Dec. 10, 1929

135c—Hammer Head, 2 lbs.	$ .75
135T—Hammer Head, 2 lbs.	.75
137—Screw	.15
138—Lockwasher	.10
136—Handle	.40
Hammer only, 2 lbs	2.15
1 RC Hammer—(With Comp. and Rubber tips)	2.45
1 R Tip—(Rubber tip, 2 lb. hammer)	.20
1 C. Tip—(Comp. tip, 2 lb. hammer)	.20
1 L Tip—(Lead tip, 2 lb. hammer)	.40
1 K Tip—(Copper tip, 2 lb. hammer)	1.20
140C—Hammer head, 4 lb.	1.25
140T—Hammer head, 4 lb.	1.25
142—Screw	.20
143—Lockwasher	.10
141—Handle for 4 lb. hammer	.45
Hammer only, 4 lbs. (Without tips)	3.25
2 R Tip—(Rubber tip, 4 lb. hammer)	.30
2 C Tip—(Comp. tip, 4 lb. hammer)	.55
2 L Tip—(Lead tip, 4 lb. hammer)	.85
2 K Tip—(Copper tip, 4 lb. hammer)	2.05
2 RC Hammer—(With comp. and rubber tips)	3.90

RAWHIDE MALLETS

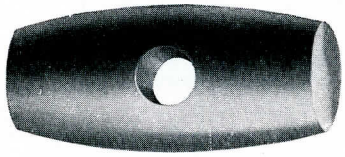
Solid Rawhide Heads — Hardwood Handle



Price List

No.	Diam.	Length	Weight	Net Price Each
4	2″	3½″	10-oz.	$1.35
5	2¾″	4¼″	21-oz.	3.00

EUREKA COPPER HAMMERS



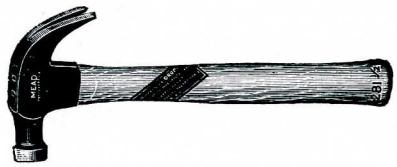
Copper hammers will drive work to place without marring and for many purposes are superior to steel hammers.

3-Lb. Hammers and Over	Add to Base Price	$ .03
2½-Lb. Hammers	Add to Base Price	.03½
2-Lb. Hammers	Add to Base Price	.04
1½-Lb. Hammers	Add to Base Price	.04½
1-Lb. Hammers	Add to Base Price	.05
Smaller Hammers	Add to Base Price	.08

Handles, Attached Extra

2½-Lb. Hammers and Smaller	each	$ .10
3-Lb. Hammers and Larger	each	.15

"MEAD" NAIL HAMMERS



Bell Face. Black Finish. Polished Face and back of claw. Hickory Handle

No.	Weight	Length	List Each
281	20-oz.	13½″	$1.30
281½	16-oz.	13″	1.20
282	13-oz.	13″	1.10
283	7-oz.	12″	1.00

NO. 66 — MACHINISTS' RIVETING HAMMER

Drop forged. Full polished. Hickory Handle

Size	Weight	List Each
0	4-oz.	$1.20
1	7-oz.	1.25
2	9-oz.	1.30
3	12-oz.	1.35
4	15-oz.	1.40
5	18-oz.	1.55

NO. 16 — ENGINEERS' HAMMERS —DOUBLE FACE

Drop forged. Full polished. Hickory handle.

Size	Weight	List Each
1	1 lb. 8 oz.	$2.10
2	2 lb. 6 oz.	2.30
3	3 lb.	2.50

NO. 20½ MACHINISTS' BALL PEIN HAMMER

Drop forged. Selected steel. Black finished body.

Polished face and ball hickory handle.

Size	Weight	List Each
5/0	4-oz.	**$1.00**
4/0	6-oz.	**1.00**
3/0	8-oz.	**1.00**
2/0	12-oz.	**1.00**
0	1 lb.	**1.05**
1	1¼ lb.	1.15
2	1½ lb.	**1.20**

SLEDGES

CROSS PEIN STRAIGHT PEIN DOUBLE FACE Weight Lbs.	Net Each
4	**$ .85**
6	**1.15**
8	**1.25**
10	**1.45**
12	**1.60**
14	**2.10**
16	**2.40**

SCREWDRIVERS

PEERLESS SCREWDRIVERS

No. 510. Forged from spring steel, blade passes entirely through the handle, which is of ebony finish hardwood.

Blade, Inches	1½″	2″	3″	4″	5″
List Each	**$ .35**	**$ .35**	**$ .40**	**$ .40**	**$ .45**
List Per Dozen	**3.90**	**4.20**	**4.50**	**4.80**	**5.40**
Blade, Inches	6″	7″	8″	10″	12″
List Each	**$ .50**	**$ .60**	**$ .70**	**$ .85**	**$1.00**
List Per Dozen	**6.00**	**7.20**	**8.40**	**10.20**	**12.00**

ELECTRICIAN'S SLIM CABINET SCREWDRIVERS

No. 519. Designed to meet the requirements of a slim screwdriver. Blade is of a tough $\frac{3}{16}$″ spring steel. Fluted ebony-finished handle, riveted through ferrule and blade.

Blade, Inches	1½″	2½″	3½″	4½″	5½″
List Each	**$ .30**	**$ .35**	**$ .35**	**$ .40**	**$ .40**
List Per Dozen	**3.60**	**3.90**	**4.20**	**4.50**	**4.80**
Blade, Inches	6½″	7½″	8½″	10½″	12½″
List Each	**$ .45**	**$ .55**	**$ .60**	**$ .75**	**$ .85**
List Per Dozen	**5.40**	**6.30**	**7.20**	**9.00**	**10.80**

PUG SCREWDRIVERS

No. 530. The blade, of spring steel, $\frac{5}{16}$″ round, extends through the handle and is inseparably attached to steel cap. Maple handle, ebony finish, steel ferrule, nickeled. Riveted through ferrule and blade. Made for close work, where considerable power is required. 1¾″ blade; 5½″ long.

List Each ..... **$ .50**
List Per Dozen **5.40**

MACHINISTS' SCREWDRIVERS

No. 520. Blade, of fine tool steel, $\frac{5}{16}$″ square, passes through the handle with a cap on the outer end. It is riveted through a heavy steel ferrule. Designed for heavy duty. Permits use of wrench.

Blade, Inches	3″	4″	5″	6″	8″
List Each	**$ .50**	**$ .55**	**$ .60**	**$ .60**	**$ .65**
List Per Dozen	**6.20**	**6.50**	**6.80**	**7.20**	**7.80**

FYR-HEAD SCREWDRIVERS

No. 700

With a patented ferrule anchor. Blade will not twist or pull out. Cap cannot come off.

Sizes and Prices

No. 700	List	List
4″	**$ .50 Each**	**$ 6.00 Doz.**
6″	**.75 Each**	**9.00 Doz.**
8″	**1.00 Each**	**12.00 Doz.**
10″	**1.25 Each**	**15.00 Doz.**
12″	**1.50 Each**	**18.00 Doz.**

Packed Half Dozen to a Box

CRESCENT SCREWDRIVER BITS

Drop forged steel. Fit all standard bit braces. Finish: Full polished.

No.	Length	Size of Rod	Width of Pt.	Weight per Doz.	Net Price, Each
421	4 ″	5/16″	11/32″	1 lb. 2 oz.	**$ .40**
421	4½″	5/16″	11/32″	1 lb. 2 oz.	**.40**
421	5 ″	5/16″	11/32″	1 lb. 2 oz.	**.45**

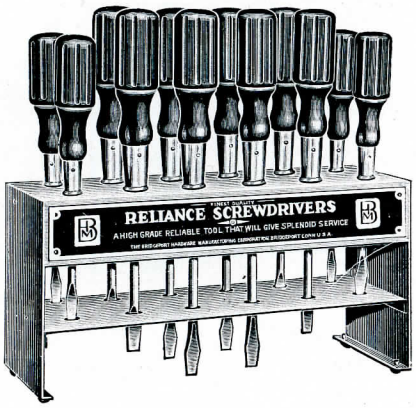
MINIATURE MONARCH SCREWDRIVERS

No. 811. Blades drop-forged from tool steel, ferrule nickel plated, handle hardwood, mahogany finish.

Blade, Inches	1¼″	2¼″	3″
List Each	$ .10	$ .10	$ .10
List Per Dozen	1.00	1.10	1.20

No. 811 Assortment. Four each of above sizes, complete list $1.20

RELIANCE SCREWDRIVER ASSORTMENT



No. 35
No. 7 Screwdrivers

Assortment contains four 4-inch, four 5-inch, and four 6-inch screwdrivers. Blades made of special steel, tempered throughout. Blade, handle and ferrule securely riveted together. Packed on a strong substantial all-steel rack enameled mahogany with handsome three-color lithographed metal label across front. Stands are fitted with rubber feet to prevent scratching of fine show cases and counters. Rack is a creditable store fixture.

No. 35 Assortment. Price, Net Each $3.00

NO. 7 SCREWDRIVERS

Size Inches	2	2½	3	4	5	6	8	10	12
Net Each	$ .17	$ .18	$ .19	$ .20	$ .23	$ .25	$ .37	$ .44	$ .51
Net Per Doz.	$1.88	$1.92	$2.04	$2.19	$2.50	$2.65	$4.06	$4.84	$5.78

LITTLE WONDER SCREWDRIVER ASSORTMENTS

No. 42

Comprising four screwdrivers of each of the following sizes: 1¼-inch, 2-inch and 3-inch.

The screwdrivers are mounted on a very attractive red and gold display card.

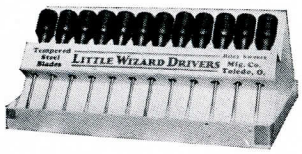
Each card is packed in a container box.

No. 7 Screwdrivers

Placed on the counter, the card will be a great aid in making screwdriver sales.

No. 42 Assortment. Price, Net Each .....$ .85

LITTLE WIZARD SCREWDRIVER ASSORTMENT



12 On a Display Card

Net Price Per Card .....$ .49

YANKEE SPIRAL SCREWDRIVERS

Made in two sizes. Three bits furnished with each.

No. 30A. Standard Size; Stroke 5¼″; Length Closed including Bit, 13″. Net Price, Each $2.50

No. 31A. Heavy Style for Large Screws. Stroke 8¼″, Length Closed including Bit, 16¾″.

Net Price, Each $3.10

YANKEE RATCHET SCREWDRIVER

Right and Left Hand, and Rigid

No. 10—Adjustment for right or left hand is made by slide moved in direction of length of blade.

Length of blade	2	3	4	5	6	8	10	12 in.
Net Price, Each	$.60	$.62	$.67	$.72	$.80	$.91	$1.09	$1.20

NO. 90 YANKEE SCREWDRIVERS

Large Sizes Only

Size, Inches	15	18	24	30
Net Price, Each	$1.15	$1.55	$1.85	$2.10

RIBBED BLADE SCREWDRIVER

New Style, Non-Skid Blade Screwdriver
Facilitates Overhead Work

The Non-Skid Bridgeport Red Crown greatly facilitates overhead work, where it is difficult to exert upward pressure; also all work where the screwdriver reaches the screw head at an angle.

Prevents Injuries

The Non-Skid prevents accidents and personal injuries that result from slipping screwdrivers.

Ideal for Self-Tapping Screws

With the Non-Skid, it is much easier to drive Parker-Kalon, or any other, self-tapping screw.

Drives Screws Easier

With the Non-Skid, all the effort is put into the turning of the screw—pushing is not required to keep the screwdriver engaged in the screw slot.

Turns Battered and Rusted Screws

Because of its **ribbed blade,** the Non-Skid holds a firm grip even on battered and rusted screws.

Made in 3 Styles—No. 1, No. 2, No. 3

No. 1—Blade extends clear through handle. One of the finest screwdrivers made.

No. 2—Blade made of "high-test" steel. Handle, ferrule and blade securely riveted together.

No. 3—Shock-proof (10,000 volts). Designed especially for electrical and cabinet work. Slim blade with magnetized point.

SIZES AND LIST PRICES

No. 1
Non-Skid Screwdriver

3″	$ 5.40 Doz.
4″	6.00 Doz.
5″	6.60 Doz.
6″	7.20 Doz.
8″	9.00 Doz.
10″	10.00 Doz.

No. 2
Non-Skid Screwdriver

2″	$ 3.00 Doz.
3″	3.60 Doz.
4″	4.20 Doz.
5″	4.80 Doz.
6″	5.40 Doz.
8″	7.20 Doz.
10″	8.40 Doz.

No. 3
Non-Skid Screwdriver

2½″	$ 4.20 Doz.
3½″	4.80 Doz.
4½″	5.40 Doz.
5½″	6.00 Doz.
6½″	6.60 Doz.
8½″	7.80 Doz.
10½″	9.90 Doz.

No. 10
Small Dealer Stock

No. 1	No. 2	No. 3
3—4″	3—2″	1—3½″
2—5″	3—3″	1—4½″
3—6″	4—4″	1—5½″
1—8″	2—5″	1—6½″
	4—6″	
	1—8″	

List Price, Each—No. 10 ..... $13.30

DURA SCREWDRIVERS

Revolutionary in Design
Superior in Quality — Beautifully Finished

From its moulded handle to its scientifically electrically tempered blade, the Vlchek Dura Driver is entirely different and superior to the ordinary screwdriver.

The handle is friction grip and solidly moulded under 50 tons pressure over the flanges on the blade that absolutely prevent the blade from turning or twisting.

In Popular Sizes Only—3, 4½ and 6 Inches
Net Price Per Dozen, all sizes $1.10

"ARISTOCRAT" SCREWDRIVERS

The "Life Time" Screwdriver for the Man Who Wants the Best

POINTS OF SUPERIORITY

Handle

Everlasting Compressed Fibre
Perfectly Insulated
Shock Proof
Oil Proof
Non-Slip Grip
Batter Proof
Good Looking

Blade

Finest Chrome-Vanadium
Tempered Steel
Hammer Forged
Heat Treated
Permanently Anchored In Handle
Wear Proof
Stain Proof

Made in Three Types in the following sizes:

STANDARD TYPE — ROUND BLADE

	Net Price, Each
¼″x 1½″—Catalog No. 1411	$ .60
¼″x 2½″—Catalog No. 1412	.65
5/16″x 6 ″—Catalog No. 1420	.85
5/16″x 8 ″—Catalog No. 1421	.90
⅜″x 8 ″—Catalog No. 1441	.95
⅜″x10 ″—Catalog No. 1442	1.00

IGNITION TYPE — ROUND BLADE

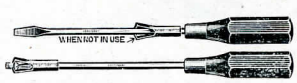
	Net Price, Each
3/16″x 3″—Catalog No. 1405	$ .60
3/16″x 6″—Catalog No. 1401	.65
3/16″x 8″—Catalog No. 1402	.70
3/16″x10″—Catalog No. 1403	.70
3/16″x12″—Catalog No. 1404	.75

HEAVY DUTY TYPE — SQUARE BLADE

	Net Price, Each
⅜″x 6″—Catalog No. 1444	$1.15
⅜″x 8″—Catalog No. 1445	1.20
⅜″x10″—Catalog No. 1446	1.25
7/16″x12″—Catalog No. 1480	1.45
Old Sampson, Square Blade, 9/16″x8″—Catalog No. 1490	3.00

These Fleming Screwdrivers are always designated by the Red and Green Bands on the handle which assures you of the above points of quality.

HOLD-E-ZEE SCREWDRIVER

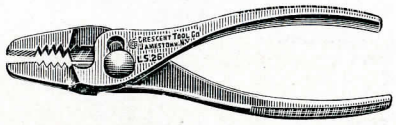


Holds any size screw. Used Everywhere.

No.	S-7	S-4	R-10	R-4
Length In.	7	4	10	4
Overall In.	11¼	8	14	8
Hex. Dia	7/32	7/32	5/32	5/32
List Each	$ .60	$ .60	$ .60	$ .50

CRESCENT PLIERS

CRESCENT SIDE CUTTING SLIP JOINT PLIER



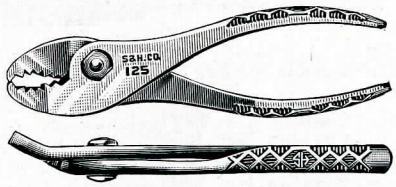
This is the regular Crescent Thin Nose plier with a side cutter added. None of the good points of the thin nose plier have been lost and the addition of the cutter makes it a most valuable tool. The cutter has keen edges and will cut easily.

Finish: Nickel plate, hand buffed.

Number	Size	Capacity	Weight
LS26	6″	1″	5 oz.

Net Price, Each ..... $ .50

STORAGE BATTERY PLIER



A most useful tool in battery service and repair shops. Large, sharp teeth for gripping stubborn nuts and bolts. Made in bent nose style so as to get in between terminals and cases or filler caps. Slip joint gives better grip on terminals and cables.

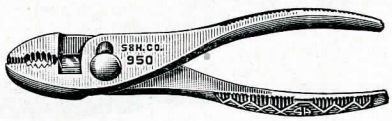
Finish: Nickel plate over copper.

Number	Size	Weight
125	6″	8 oz.

Packed one in a box.

Net Price, Each ..... $ .62

SIDE CUTTING SLIP JOINT PLIERS



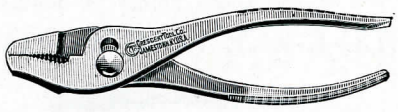
This plier also has a side cutter and pipe grip. A "V" in the nose helps to hold wires firmly. Barrel stave shaped handles give comfortable grip.

Finish: Nickel plated.

No.	Size	Weight Each	Net Price Each
950	5½″	5-oz.	$ .82
950	7 ″	8-oz.	.99

Packed one in a box.

CRESCENT UNIVERSAL PLIERS



Crescent Universal Pliers are made from high grade steel, drop forged and properly hardened. Accurately machined and beautifully finished in nickel. Made in one size only—7-inch. Packed one in a box. No chance for shelf wear.

Shipping carton contains 252. Weight, 172 lbs.

No.	Size In.	Net Price, Each
D27	7	$ .39

CEE-TEE-CO COMBINATION PLIERS

To meet a demand for a guaranteed tool at a low price. The Cee-Tee-Co is a high grade tool, drop-forged from fifty carbon open-hearth steel, but machine finished instead of hand finished. Nickel-plate.

The machine finish does not give the high polish of the hand work, but makes a very satisfactory and rustproof finish for all around work.

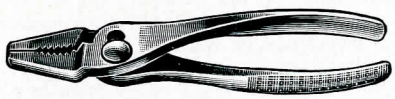
Packed one in a box.

No.	Size In.	Net Price, Each
H25	5	$ .19
H26	6	.19
H28	8	.28
H210	10	.41

H-25 and H-26 also furnished in bulk—Doz. lots only.

Net Per Doz. $2.00

CRESCENT THIN STRAIGHT NOSE PLIERS



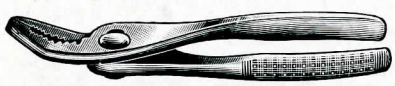
This plier has a thin straight nose which is especially adapted for narrow spaces and difficult work.

It is equipped with checkerdot handles, a hardened bolt and is finished in hand-polished nickel.

Packed one in a box.

No.	Size In.	Net Price, Each
L25	5	$ .32
L26	6	.32

CRESCENT THIN BENT NOSE PLIERS



The Crescent Thin Bent Nose Pliers has a thin nose bent at a thirty degree angle.

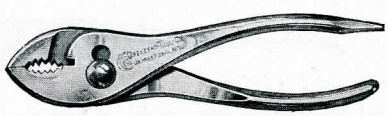
This plier can be had in either the nickel-plated or black finishes. It is fully hand-polished.

Made in one size only — the six-inch.

The Crescent Thin Bent Nose Pliers come packed one in a box.

No.	Size In.	Net Price, Each
J26	6	$ .39

CRESCENT COMBINATION PLIERS



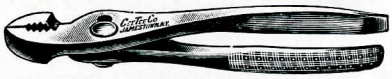
Made of special steel, hardened and oil tempered. A double coating of nickel, hand buffed, gives these pliers an extra fine, rust proof finish. Slip joint style. Guaranteed.

Packed one in a box.

No.	Size In.	Net Price, Each
E26	6	$ .51
E28	8	.59
E210	10	.70

CRESCENT PLIERS

MOTOR KIT COMBINATION PLIERS



The Motor Kit Plier is a high grade hand finished tool.

It is made to answer the requirements of the best and most exacting trade.

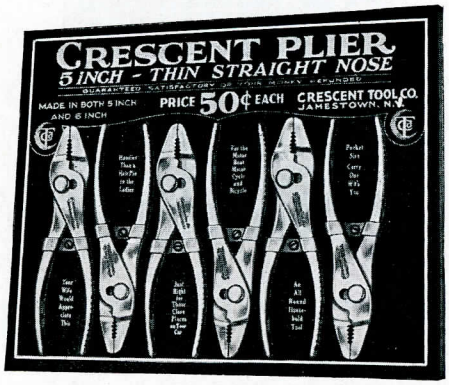
The handles are drop forged from fifty carbon open hearth steel, hardened and oil drawn. Bolt and nut are turned from the solid bars of cold rolled steel and case hardened. All holes are drilled and teeth milled. Nickel finish.

Has checkerdot handles, wire cutter and screwdriver.

Packed one in a box.

No.	Size In.	Net Price, Each
G25	5	$ .27
G26	6	.27
G28	8	.39
G210	10	.55

NO. DB7 CRESCENT PLIER ASSORTMENTS


CRESCENT PLIER
5 INCH - THIN STRAIGHT NOSE
GUARANTEED SATISFACTORY OR YOUR MONEY REFUNDED
MADE IN BOTH 5 INCH AND 6 INCH
PRICE 50¢ EACH
CRESCENT TOOL CO.
JAMESTOWN, N.Y.

The assortment consists of one half dozen No. L25 5-inch thin straight nose pliers and one half dozen L26 6-inch thin straight nose pliers, together with the display card shown above.

The 5-inch pliers are mounted on the card and the 6-inch are in regular cartons in the package.

The tools retail for 50 cents each.

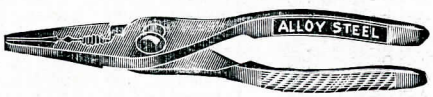
The assortment is furnished at the regular price of the dozen pliers with no charge for the display card.

Packed one assortment in a box.

Net Price Per Assortment **$3.80**

WILDE LONG THIN NOSED PLIER

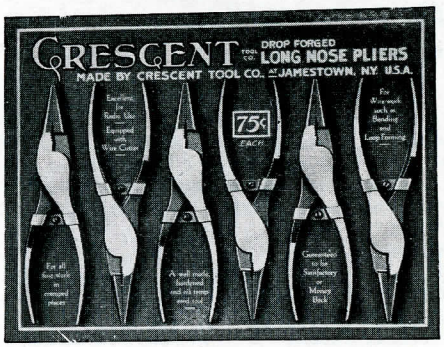
Polished Nickel Finish



No. 2010—Length, 7 in.; length of jaws, 2 in.

Net Price, Each, No. 2010 ..... **$ .75**

NO. DB10 CRESCENT LONG NOSE PLIER DISPLAY CARDS



This display consists of six No. M16 six-inch Crescent Long Nose Pliers mounted upon a heavy cardboard display card. The card is equipped with a lock easel back. The pliers are securely fastened to the card. They are sold only on the display cards. These pliers are for radio use and for all general fine work. Equipped with a good wire cutter.

Packed in individual cartons.

Net Price, No. M16 ..... each **$ .50**

Net Price, No. DB10 ..... complete **3.00**

ASSORTMENT DB8

MOTOR KIT A Crescent Plier
Guaranteed Satisfactory or your money refunded
MADE IN FOUR SIZES
CRESCENT TOOL CO.
JAMESTOWN, N.Y. U.S.A.
PRICE 50¢ EACH

Packed one assortment in a box. Weight packed for shipment, 5¼ lbs.

DB8 consists of one half dozen G25 five-inch Motor Kit Pliers and one half dozen G26 six-inch Motor Kit Pliers, together with the display board pictured above.

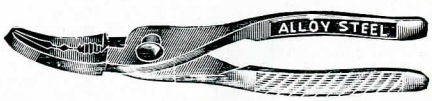
Three pliers of each size are mounted on the card as shown, and the remaining three of each size are packed in separate cartons.

The pliers retail for 50c each, total for the assortment, $6.00.

Net Price Per Assortment **$3.24**

WILDE LONG THIN BENT NOSED PLIER

Polished Nickel Finish



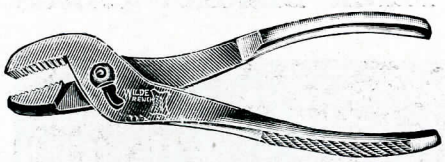
No. 2020—Length, 7 in.; length of jaws, 2 in.

Net Price, Each, No. 2020 ..... **$ .75**

WILDE WRENCH

THE SUPER-PLIER

Holdfast Grip on Any Shaped Object

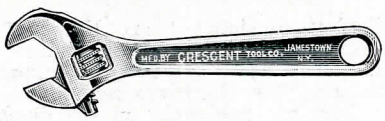


Three quick, positive adjustments. Tool steel bolt, oil hardened. Will not strip or break down.

Will hold rod or pipe as securely as a pipe wrench. Square, hexagon or octagon nuts as securely as an end wrench.

Size, Inches	6	8
Capacity	7/8	1 1/8
Net Price, Each	$ .85	$ .95

CRESCENT WRENCHES



Polished finish. Packed one to a box.

No.	Size In.	Net Price, Each
A14	4	$ .47
A16	6	.47
A18	8	.58
A110	10	.72
A112	12	1.08
A115	15	1.62
A118	18	2.33

CRESCENT DOUBLE END WRENCHES

Polished finish. Packed one to the box.

No.	Size In.	Net Price, Each
B146	4- 6	$ .80
B168	6- 8	.90
B1810	8-10	1.08
B11012	10-12	1.43

CRESCENT AUTO WRENCH

A sturdy, general purpose tool, entirely forged from steel of a special analysis. Hardened and oil tempered by a special process.

Hand polished finish. Teeth milled, giving easy and accurate adjustments. Spring under adjusting knurl holds the jaw set wherever it is placed.

Packed one in a box. Guaranteed.

No.	Size In.	Net Price, Each
019	9	$ .50
0111	11	.83

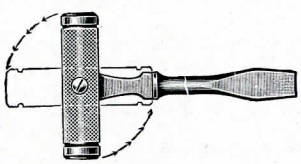
NO. DB9 CRESCENT WRENCH ASSORTMENTS

The DB9 Assortment consists of the following genuine Crescent tools: Six inch Crescent Wrenches, genuine Crescent tools: Six 6" Crescent Wrenches, six eight-inch Crescent Wrenches.

Three of each size are mounted on the card, the remainder packed in individual cartons.

Net Price Per Assortment $6.30

CRESCENT SCREWDRIVERS



Nickel-plated. Packed 3 in a box.

No. (Symbol 270)	K-24	K-25	K-26
Length of Blade ..... inches	4	5	6
Length Over All ..... inches	7 1/2	9	10
Width of Point ..... inches	5/16	3/8	1/2
Thickness of Point ..... inches	3/64	1/16	5/64
Net Price, Each	$ .39	$ .42	$ .45

REPAIR PARTS FOR CRESCENT WRENCHES

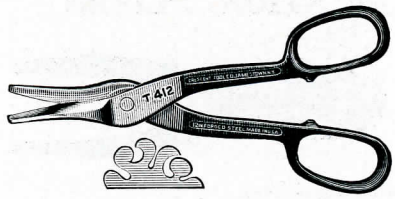
Size	JAW Number	JAW Price	KNURL Number	KNURL Price	PIN Number	PIN Price	SPRING Number	SPRING Price
4-in.	A-14 -J	$ .25	A-14 -K	$ .10	A-14 -P	$ .05	A-14 -S	$ .05
6-in.	A-16 -J	.25	A-16 -K	.10	A-16 -P	.05	A-16 -S	.05
8-in.	A-18 -J	.30	A-18 -K	.12	A-18 -P	.05	A-18 -S	.05
10-in.	A-110-J	.40	A-110-K	.15	A-110-P	.05	A-110-S	.05
12-in.	A-112-J	.60	A-112-K	.25	A-112-P	.10	A-112-S	.05
15-in.	A-115-J	.85	A-115-K	.35	A-115-P	.10	A-115-S	.05
18-in.	A-118-J	1.15	A-118-K	.55	A-118-P	.10	A-118-S	.05

Repair parts for the regular single end wrench are interchangeable with the double end wrench parts.

Discount on Repair Parts 30%

SNIPS

CIRCULAR CUTTING SNIPS



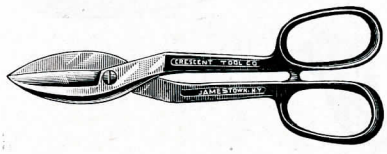
Designed specially for cutting out intricate patterns and curves. They cut smoothly and leave the metal unbent. In quality, they are the same as the S4 line of Crescent snips shown on this page.

Finish: Polished blades. Crescent Blue enameled handles.

No.	Length	Cut	Weight Each Packed	Net Price, Each
T47	7″	1¾″	7-oz.	$ .65
T412	12″	3″	1 lb. 9-oz.	.98

Packed one in a box.

CRESCENT TINNERS' SNIPS



These snips are designed after the pattern of snips with inlaid blades. They are forged of special steel and the blades are ground on special machines which give them a keen, strong edge that will retain its sharpness. Powerful leverage makes them cut evenly and smoothly.

This line of snips is guaranteed to give satisfaction and we will replace or refund the money on any snip that does not satisfy the user in every respect.

Finish: Polished blades, Crescent blue enameled handles. (Enamel baked on and will not chip.)

Equivalent to No. Inlaid Snip Nos.	Length	Cut	Net Price Each
S47 14	7″	1¾″	$ .48
S48 13	8″	1⅞″	.50
S49 12	9″	2 ″	.60
S410 11	10″	2¼″	.65
S411 10	11″	2½″	.72
S412 9	12″	3 ″	.80
S413 8	13″	3½″	1.00
S414 7	14″	4 ″	1.15

Packed one in a box, with easel in box cover by which counter or window display can be made.

SIOUX TOOLS

Sioux Flexible Shaft Machines

Sioux Valve Tools

Ask for Special Sioux Catalogue

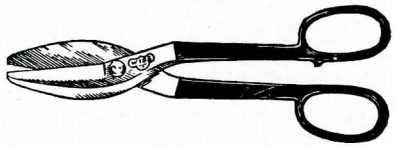
CRESCENT SNIP DISPLAY

NUMBER DB13

An 8½x11-inch card, printed in blue on a gold background with a lock easel back makes this display very handy and attractive. Three of the S47 seven-inch Crescent snips are displayed on the card and three more are packed with it. This display features snips for household use and several of the more important uses are illustrated.

Net Price, Each, DB 13 .....**$4.50**

WISS TINNER'S STEEL SNIPS



They are made of high grade materials. Have been tested to cut 20d. wire nails.

	Full Length	Length of Cut	List Price, Each
12	8 in.	2 in.	**$1.45**
11	9½ in.	2¼ in.	**1.73**
10	11½ in.	2½ in.	**2.34**
9	12½ in.	3 in.	**2.55**
8	13¾ in.	3½ in.	**2.88**
7	14½ in.	4 in.	**3.62**
17	14½ in.	4 in.	**3.94**

No. 17 Snips will cut circles as well as straight lines.

RUPP UNIVERSAL SNIPS

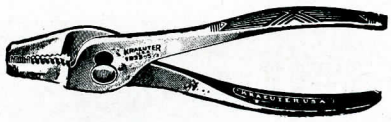
Cuts Circles, Curves, Straight

Net Price, Each

No. 900—14-inch Snip cuts 18 gauge metal **$2.30**
No. 901—11¾-inch Snip cuts 22 gauge metal **3.00**
No. 904—Universal cuts 22 gauge metal **4.25**

KRAEUTER PLIERS

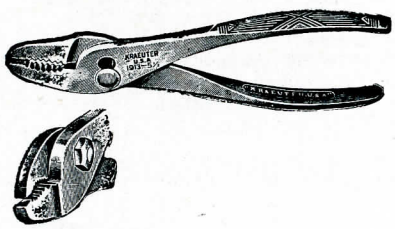
KRAEUTER "VICTOR" UNIVERSAL PLIERS



No. 305. Full Nickel.
An unusual plier with teeth like a Stillson wrench. The harder you press or twist, the deeper it bites. Specially built to take odd shapes, round, triangular, half rounds, wire, nuts, etc.

Length, Inches	5½	7
List Price, Each	$1.10	$1.25

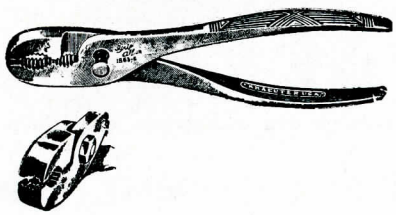
KRAEUTER BENT THIN NOSE COMBINATION PLIERS



No. 1913. Full Nickel.
The narrow jaws reach into tight places, and the bent nose saves barking your knuckles when turning a set nut.

Length, Inches	5½	7
Ozs. Each	4	7½
List Price, Each	$1.10	$1.40

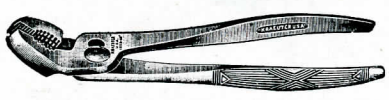
KRAEUTER "GRIP-ALL" SUPERIOR GRIPPING COMBINATION PLIERS



No. 1863. Full Nickel.
Has all features of a pipe, bolt or nut gripping tool. For both side and end action.

Length, Inches	6½	9
List Price, Each	$1.10	$1.40

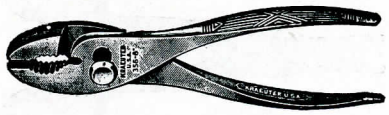
KRAEUTER BENT NOSE COMBINATION PLIERS



Jaws are set at an angle of 45°. Especially useful for angle work. Very powerful.

No. 1923	Size 8	10 in.
List Price, Each	$1.50	$1.75

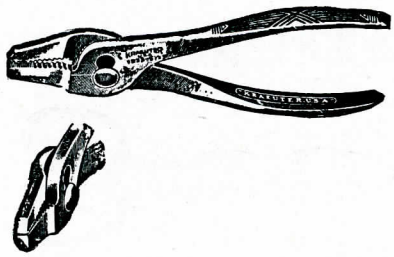
KRAEUTER "GRIPTITE" COMBINATION PLIERS



No. 356. Full Nickel.
5½ in. Pocket Size.
6 in. universal. Has screwdriver.
8 in. strongly built, for heavy work.
10 in. long leverage. Powerful on pipes.
All of the above have wire cutters.

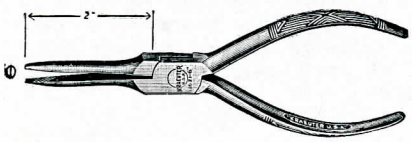
Length, Inches	5½	6	8	10
List Price, Each	$ .80	$1.00	$1.25	$1.50

KRAEUTER THIN NOSE COMBINATION PLIERS



No. 1903. Full Nickel.
The narrow jaws enable you to reach into tight corners.
7 in. Long—List Price, Each $1.25

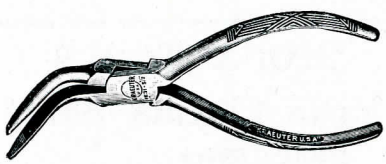
KRAEUTER LONG FINE NEEDLE NOSE PLIERS



Kraeuter Finish.
Extra long, finely tempered nose, for reaching into odd and difficult place.

No.	Length	List Price, Each
1621	6 in.	$1.50

KRAEUTER CURVED NEEDLE NOSE PLIERS

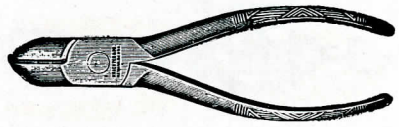


Kraeuter Finish.
Spring tempered, long. curved nose for unusual jobs. For the household, jeweler, electrician, mechanic, etc.

No.	Length	List Price, Each
1631	5½	$1.75

KRAENTER PLIERS

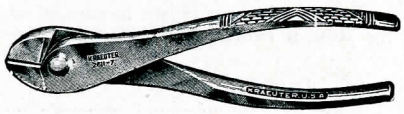
KRAEUTER DIAGONAL CUTTING PLIER



Kraeuter Finish.
For close cutting. Has durable cutters.

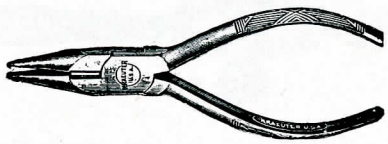
No. 2601	4½	5	5½	6
List Price, Each	$1.25	$1.40	$1.50	$1.65

KRAEUTER EXTRA HEAVY DIAGONAL CUTTING PLIERS



No. 2611. Kraeuter Finish.
Designed to meet the demand for a larger and more powerful diagonal cutter. Is practically unbreakable. Joint is extra heavy and rigid.
Length 6½ in. List Price, Each $1.50

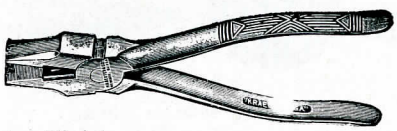
KRAEUTER SIDE CUTTING PLIER



Needle Nose.
Kraeuter Finish.
Slender tapered nose pliers. A handy tool—for general use.

No.	Length	List Price, Each
1661	6 in	$1.75

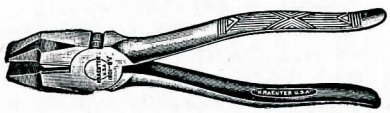
KRAEUTER ELECTRICIANS' PLIERS



Kraeuter Finish.
For general purposes. Strong construction. Fine cutters.

No. 1831. Sizes, Ins.	4	5	6½	7	8
List Price, Each	$1.05	$1.15	$1.25	$1.40	$1.50

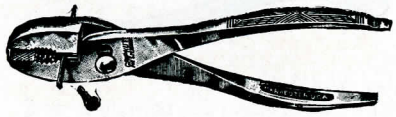
KRAEUTER HEAVY LINEMEN'S PLIERS



Standard quality. For wire cutting and twisting. Made of Forged steel with extra tough jaws. Kraeuter polished finish.

No. 1801—Sizes, In.	6	7	8½
List Price, Each	$1.70	$2.00	$2.35

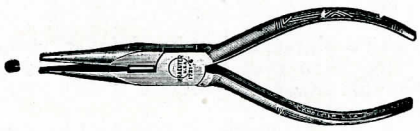
KRAEUTER "GRIPKUT" COMBINATION SIDE CUTTING PLIERS



Full Nickel.
Has side cutters like a lineman's plier, suitable for cutting insulated or bare wire.

No. 1973. Length, Ins.	5½	7
List Price, Each	$1.35	$1.60

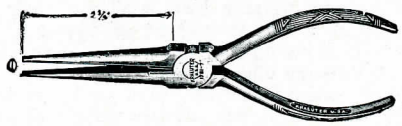
KRAEUTER ELECTRICIANS' LONG NOSE SIDE CUTTING PLIERS



Kraeuter Finish.
This plier has a long slender nose, milled jaws, and is made with a semi-flat point ⅛ inch wide. It is especially adapted for fine wire work and has a side cutter.

No.	Length	List Price, Each
1721	6 in.	$1.60

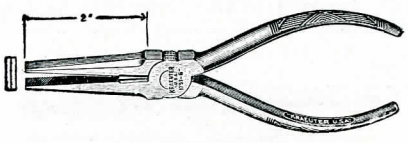
KRAEUTER VERY LONG REACH SIDE CUTTING PLIERS



Kraeuter Finish.
A handy plier for automobile mechanics and repairmen. Especially good for radiator repair work. The long slender jaws enable one to reach far beyond the capacity of the ordinary plier.

No.	Length	Oz. Each	List Price, Each
1781	7 in.	4¾	$1.75

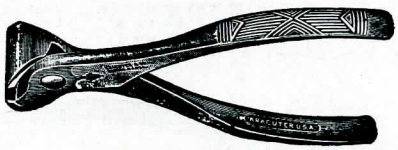
KRAEUTER EXTRA LONG REACH FLAT NOSE PLIERS



Side Cutting—Kraeuter Finish.
Ideal for electricians. The long, flat nose gives many advantages.

No.	Length	List Price, Each
1751	6	$1.50

KRAEUTER GIANT END NIPPERS

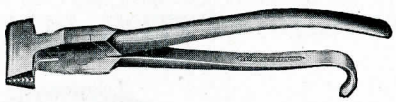


Kraeuter Finish.

Maximum leverage. A compact and powerful cutter.

No. 1851—Sizes, Inches	5	6	7	8
List Price, Each	$1.15	$1.25	$1.50	$1.75

KRAEUTER BRONZE BATTERY PLIER

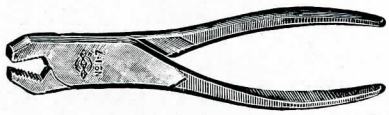


A pattern designed to handle plates of storage batteries. Wide jaws give large gripping surface, and hooked handle makes it possible to lift plates without excessive squeezing.

No.	Jaws	Length	Weight	List Price, Each
4261	2 in.	9 in.	14 oz.	$2.50

Drop forged from non-corrosive bronze

UTICA BATTERY PLIER



The gripping jaws of the Battery Plier are so designed that they will take hold and turn the Battery Terminal nut no matter how badly it may be corroded or eaten away. It will fit all types of connections without injuring the top of the jars. It will fit all sizes of Battery clamp nuts.

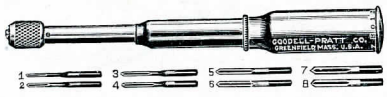
This plier also makes an ideal tool for adjusting four-wheel brakes. It fits all the nuts and adjusting studs, whether or not they are rounded over from adjusting with a socket wrench. A plier for all round adjustments.

Net Price, per pair ..... $ .85

AUTOMATIC DRILLS

No. 02. Polished Hardwood Handle; Dull Nickel Finish. Furnished with eight hardened tool steel Drill Points ranging in size from 1/16 to 11/64 inch.

List Price, Each $1.65

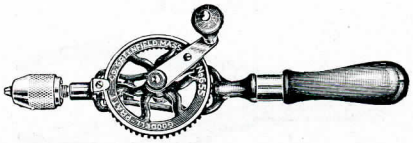


No. 03. Patented Magazine Handle holding eight Drill Points 1/16 to 11/64 inch, each in an individual numbered compartment. Dull Nickel Finish.

List Price, Each $1.80

HAND DRILL NO. 655

Capacity 0 to ¼ inch



This Drill will be welcomed by many, as it affords unusual value in a hand drill of ¼ inch capacity.

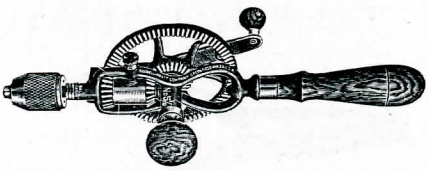
It is fitted with a comfortable Hardwood Handle with a black finish. The Frame is of Malleable Iron nicely finished in glossy black enamel. The Gear Teeth are all machine cut. The Pinion is steel, and Large Gear is finished in red enamel. The Gears are held in mesh by a hardened steel Guard.

The all-steel Chuck has three hardened steel jaws for holding Round Shank Drills 0 to ¼ inch in diameter.

Length, 11¾ inches.

List Price, Each $1.20

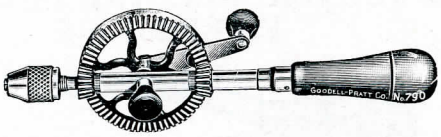
GOODELL-PRATT NO. 5½ HAND DRILLS



Capacity 0 to ⅜ inch. Its two speeds enable it to be used on all classes of work up to its extreme capacity.

No. 5½. List Price, Each $5.50

NO. 790 HAND DRILL



Capacity 0 to ¼ Inch

The Frame of this drill is all steel, nicely polished and nickel plated.

The end handle is made of polished tropical wood, hollow, and furnished with a screw cap, making a convenient receptacle for drills. Side and crank handles made of nicely finished hard wood.

All gear teeth are machine cut. The two pinions are made of steel, nickel plated. The wide face of the large gear is polished and nickel plated, while the balance is finished in red enamel.

The second pinion forms an excellent bearing practically without friction.

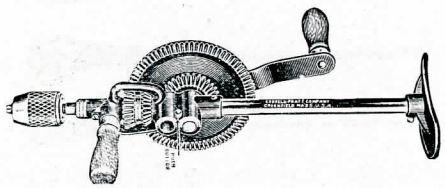
The all-steel chuck has three hardened steel jaws for holding round shank drills 0 to ¼ inch in diameter.

Eight drill points, 1/16 to 11/64 inch in diameter, contained in the handle.

Overall length, 12 inches.

No. 790. List Price, Each $4.00

GOODELL-PRATT NO. 477 BREAST DRILLS



Capacity 0 to ½ inch. Has two speeds changed by pushing pin on side of the frame. Spindle runs in ball bearings.

No. 477. List Price, Each $5.00

HOME AND FARM DRILL SET NO. 26

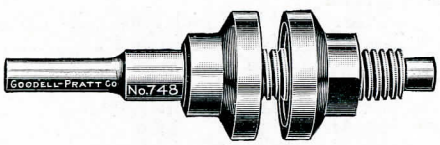
Code Word—PARLANT

This compact, handy set consists of 8 Carbon Steel Straight Shank Drills, sizes 1/16", $\frac{3}{32}$", ⅛", $\frac{5}{32}$", $\frac{3}{16}$", $\frac{7}{32}$", ¼" and $\frac{9}{32}$"—all carefully selected to meet the widest range of needs in the private home, on the farm, for radio repairs and minor automobile work. The drills will fit any standard hand, brest, post, or bench drill.

The set is packed in a wooden cylinder, as shown, with a handsome three-color varnished label, and equipped with a nickeled cap which revolves so that the size drill wanted can be easily and quickly found.

List Price, Per Set $1.90

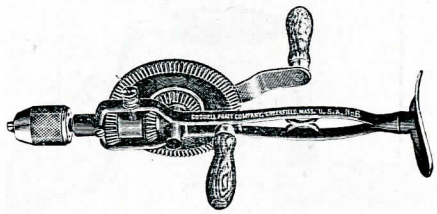
SAW OR EMERY WHEEL ARBORS



These polished steel Saw Arbors will be found convenient for holding Saws or Emery Wheels in in Lathes. They are made in four sizes. The smallest is made specially for use with electric drills of ¼ inch capacity.

	Length	Diameter	Opening Between Flanges	Diameter Between Flanges	List Price, Each
No. 748	4 inches	¼ inch	½ inch	⅜ inch	$1.00

GOODELL-PRATT NO. 6 BREAST DRILLS



Capacity 0 to ½ inch.

The breast plate is enameled iron, adjustable.

Frame is malleable iron, black enameled.

All gear teeth machine cut. Pinions are of steel. Large gear finished in red enamel. Two speeds, changed by turning shifter knob; steel spindle accurately turned and has hardened end that runs in a hardened steel cone bearing. The chuck is all-steel, with three hardened jaws for holding round shanks from 0 to ½ inch. Shell polished and nickel plated. Size 16 inches long.

No. 6. List Price, Each $6.20

MECHANIC'S DRILL SET NO. 57

Code Word—PARLORTY

This set of Cle-Forge High Speed Drills consists of 8 sizes—1/16", $\frac{3}{32}$", ⅛", $\frac{5}{32}$", $\frac{3}{16}$", $\frac{7}{32}$", ¼" and $\frac{9}{32}$".

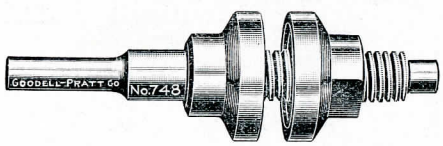
It has been created to meet an insistent demand for a set of small high speed drills for use in the smaller sizes of electric drills by automobile repair shops, small machine shops, farms, vocational schools, and the thousands of individual owners of portable electric drills.

Labeled in colors, as shown above, and equipped with a nickeled revolving cap making it easy to locate any size drill instantly, this is unquestionably the most convenient small high speed drill set ever produced.

List Price, Per Set $4.75

NO. 814 ARBOR

For Wheels with ½ Inch Holes



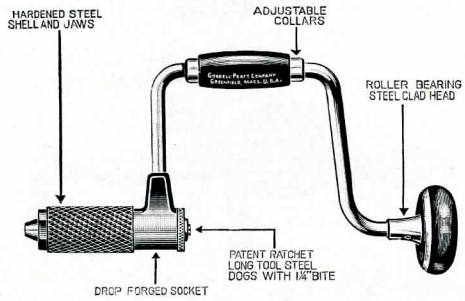
A polished steel Arbor designed particularly for use in Electric Drills fitted with ¼ inch capacity chucks. Diameter of shank, ¼ inch. The flanges are 1⅛-inch in diameter.

Diameter of Arbor between flanges, ½ inch.

Opening between flanges, ½ inch. Length, 3⅜ inches. Weight, 5 ounces.

List Price, Each $1.00

RATCHET BIT BRACES

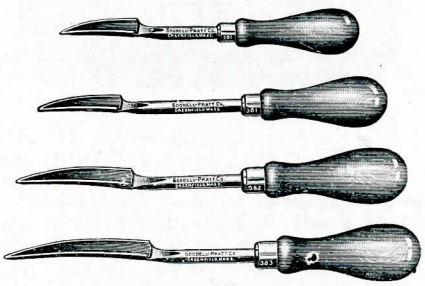

HARDENED STEEL SHELL AND JAWS
ADJUSTABLE COLLARS
ROLLER BEARING STEEL CLAD HEAD
PATENT RATCHET LONG TOOL STEEL DOGS WITH 14" BITE
DROP FORGED SOCKET

This Heavy Duty Brace is equipped with a new Universal. Chuck and a very powerful Ratchet Mechanism capable of meeting the severest requirements.

The Chuck is universal, holding round, square, or taper shanks. Its capacity is greater than usual and it will hold the largest sizes of bit brace shanks. The Chuck Shell, which is turned from a solid steel bar, has a $\frac{11}{16}$ inch hole for inserting bits, is carefully hardened, and has a nice black oil finish. The end of the Shell is a hexagon so it can be tightened with a wrench or in a vice if desired. The Chuck Jaws are carefully hardened steel.

	Sweep	List Price, Each
No. 2510	10 In.	$7.00
No. 2512	12 In.	7.20

BEARING SCRAPERS

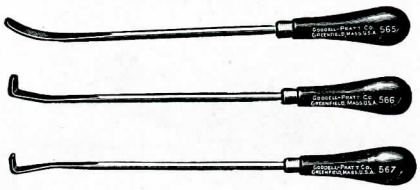


We unreservedly recommend these Bearing Scrapers as the best made. The slightly curved, tapering, and recessed Blade is designed to do nice scraping without chattering. The Blades are forged from a very high grade of tool steel correctly hardened and so carefully tempered that they will scratch glass and hold their keen razor-like edge over a long period. After being dulled by long usage they can be easily sharpened by a few strokes on an oil stone.

The polished round Shanks and large polished mahogany finished Handle make a most attractive tool and a comfortable one to use.

	Cutting Edge	Length Over All	List Price, Each
No. 581	1½ In.	8 In.	$ .75
No. 381	2½ In.	10 In.	1.00
No. 382	3½ In.	11 In.	1.10
No. 383	4½ In.	12 In.	1.20

CARBON SCRAPERS



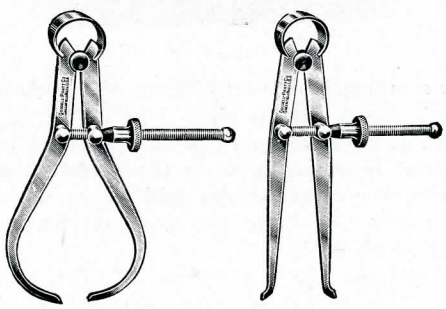
These Carbon Scrapers are forged from a high grade of $\frac{3}{16}$ inch round tool steel, hardened and tempered to have good scraping edges and yet be as springy as possible. The Blades are 9 inches long and $\frac{7}{16}$ inch wide, with polished Shanks.

The Handles are nicely polished and properly shaped, making them very easy to use. The tools are attractive in appearance and well made.

Each Scraper is 13½ inches long over all. Net weight, 3 ounces.

	List Price, Each
No. 565. Round end. Curved blade	$ .50
No. 566. Round end. Bent blade	.50
No. 567. Square end. Bent blade	.50

GOODELL-PRATT SPRING CALIPERS



No. 601 Outside **No. 607 Inside**

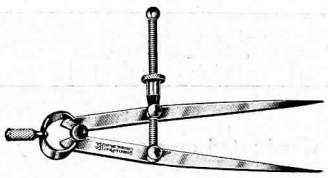
These spring calipers will appeal to all particular mechanics on account of the careful workmanship used in their manufacture and their fine finish.

The crucible steel legs are well shaped and springs are stiff and properly tempered. Quick nuts slide freely on screws.

Outside Nos.	Inside Nos.	With Quick Nut	List Price, Each
No. 600	No. 606	Size 2½ inches	$1.15
No. 601	No. 607	Size 3 inches	1.20
No. 602	No. 608	Size 4 inches	1.25
No. 603	No. 609	Size 5 inches	1.35
No. 604	No. 610	Size 6 inches	1.45
No. 605	No. 611	Size 8 inches	1.60
No. 650	No. 660	Size 10 inches	2.20
No. 651	No. 661	Size 12 inches	2.40

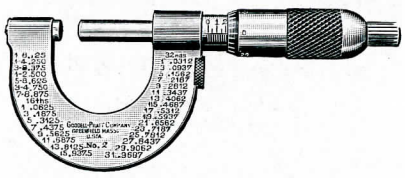
DRILL BITS
FOR WOOD OR METAL
See Page 274-279
Our Shop Supply Catalogue

SPRING DIVIDERS



	With Quick Nut	List Price, Each
No. 612	Size 2½ inches	$1.15
No. 613	Size 3 inches	1.20
No. 614	Size 4 inches	1.25
No. 615	Size 5 inches	1.35
No. 616	Size 6 inches	1.45
No. 617	Size 8 inches	1.60
No. 670	Size 10 inches	2.20
No. 671	Size 12 inches	2.40

GOODELL-PRATT MICROMETER CALIPERS NO. 2, 2R

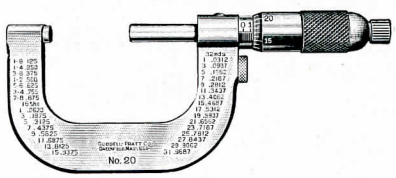


This micrometer is graduated to read by 1-1000 inch from 0 to 1 inch. Decimal equivalents etched on drop forged frame. Eccentric locking device and every necessary compensation for wear.

The No. 2R Micrometer is the same as the No. 2 but is equipped with Ratchet Stop.

No. 2 Price	List, Each	$11.50
No. 2R. With Ratchet Stop, Price	List, Each	12.00
Case for No. 2. Price	List Each	1.50
Case for No. 2R. Price	List Each	1.50

GOODELL-PRATT MICROMETER CALIPERS NOS. 20, 20R



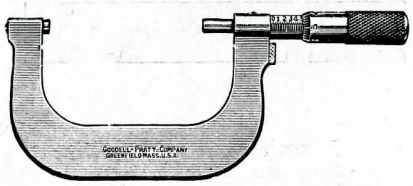
The No. 20 and 20R Micrometers are identically the same except that the No. 20R has a Ratchet Stop.

Graduated to read by 1-1000 from 1 to 2 inches.

Decimal equivalents are etched on drop-forged frame. Eccentric locking device and every necessary compensation for wear is incorporated in this Micrometer.

No. 20. Price	List, Each	$12.50
No. 20R. With Ratchet Stop, price	List, Each	13.20
Case for No. 20. Price	List, Each	2.00
Case for No. 20R. Price	List, Each	2.00

GOODELL-PRATT MICROMETER CALIPERS NO. 21



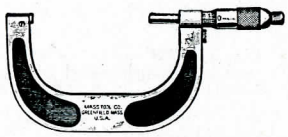
The No. 21 Micrometer Caliper is graduated to read by 1-000 inch from 2 to 3 inches, either lengths GAL. TEN
or diameters. The frame is drop-forged from a solid steel bar and is of such a size that it has great strength and rigidity.

Although it is built strong and rigid it does not carry undue weight.

An eccentric locking device is provided to hold the screw in any desired position. Every necessary compensation for wear is provided.

No. 21. List Price, Each....$12.00 Case, Extra....$3.60

GOODELL-PRATT MICROMETER CALIPERS NOS. 22, 23, 24



Guaranted to read by 1-1000 either lengths or
Graduated to read by 1-000 either lengths or diameters.

An eccentric locking device is provided, as well as adjustments to compensate for wear. Made in three sizes, as follows:

No. 22 Caliper, 3 to 4-inch. List, Each	$13.00
No. 23 Caliper, 4 to 5-inch. List, Each	14.25
No. 24 Caliper, 5 to 6-inch. List Each	15.50
Case for No. 22. List, Each	4.20
Case for No. 23 or 24. List, Each	5.00

FLEMING MICROMETER SETS

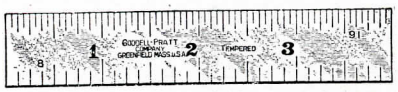
No. 1207 RL Micrometer Set Consists of—
1—No. 1204 RL 3″ to 4″ Micrometer
1—No. 1210 Extension Anvil Holder
1—No. 1211 1″ Extension Anvil
1—No. 1212 2″ Extension Anvil
1—No. 1213 3″ Extension Anvil
1—No. 1218 3″ Standard Gauge
Range 0″ to 4″. List Price $17.50

NO. 1209 RL MICROMETER SET
Range 2″ to 6″. List Price $21.00

SEMI-FLEXIBLE RULES

	Length	Width	List Price, Each
No. 253	6 inches	⅝ inch	$1.00
No. 254	9 inches	¾ inch	1.40
No. 255	12 inches	¾ inch	1.80
No. 256	18 inches	¾ inch	2.80

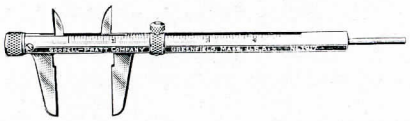
FLEXIBLE RULES



Graduated on one Side Only

	Length	Width	List Price, Each
No. 264	6 inches	⅝ inch	$1.00
No. 265	9 inches	⅝ inch	1.40
No. 266	12 inches	⅝ inch	1.80
No. 267	18 inches	⅝ inch	2.80

GOODELL-PRATT NO. 1917 UNIVERSAL CALIPERS



This remarkable instrument can be used for making any inside, outside, or depth measurements, both English and Metric, up to 4 inches or 10 centimeters.

It is graduated on one side in 32nds of an inch and on the other side in millimeters.

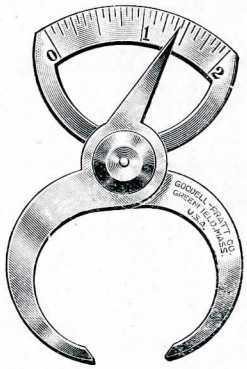
A thumb screw enables the operator to lock the jaws and depth rod in any desired position. The jaws can be easily adjusted to compensate for wear.

The entire tool is polished. Length over all 7⅛ inches. Net weight, 4 ounces.

Packed one in a pasteboard box.

No. 1917. List Price, Each $2.65

GOODELL-PRATT NO. 662 INDICATING CALIPERS



This tool will be found much more convenient than a Caliper Rule for making all outside measurements of either lengths or diameters, up to 2 inches.

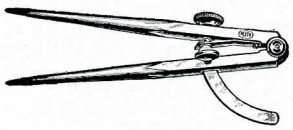
The tool is made from a hard stock and is stiff and rigid. The arc is accurately divided to read 16ths of an inch.

The entire tool is nicely finished.

Length over all, 3 inches. Net weight, 1 ounce. Packed ¼ dozen to the box.

No. 662, 2-inch List Price, Each $1.30

PEXTO WING DIVIDERS NO. 35



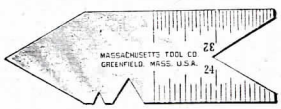
These are high grade wing dividers, made from forged steel, well polished and have brass joints.

Most mechanics are well acquainted with the superior quality, style and finish of these dividers.

Furnished in the following sizes:

Size, Inches	6	8	10	12
Net Price, Each	$1.00	$1.28	$1.75	$2.00

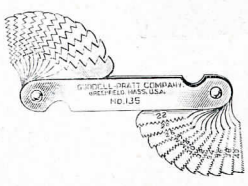
CENTER GAUGE



No. 438. 60° angles. Graduated one corner each in 32ds, 24ths, 20ths, and 14ths. Thickness, 1/30 inch.

List Price, Each .....$ .60

GOODELL-PRATT NO. 135 SCREW PITCH GAUGES



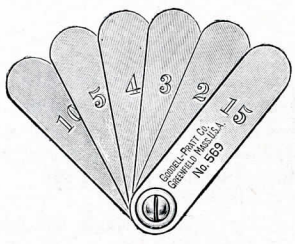
Screw pitch gauges are very useful tools for anyone who must determine the number of threads to the inch of various screws or nuts.

Very handy for the motorist who needs to replace various screws or nuts on his car, as it enables him to readily determine the correct lead. Leaves are accurately milled and polished. Has 22 Pitches for V-threads, from 9 to 40. Length of leaves, 1 inch.

No. 135. List Price, Each $1.30

THICKNESS OR FEELER GAUGE NO. 569

Leaves 2¼ Inches Long, ½ Inch Wide

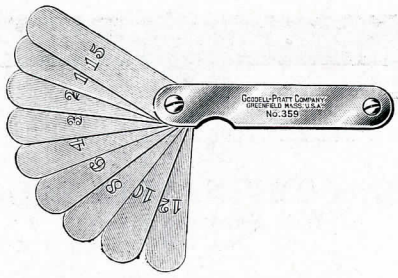


This Gauge is particularly adapted to the needs of the motor car owner and mechanic for use in setting valve tappets, timers, spark plug points, gauging shims, clearances, etc. It has six leaves, .002, .003, .004, .005, .010, and .015 inch thick, making possible in combination all thicknesses by thousandths from .002 to .039 (except .038).

No. 569. List Price, Each .....$...70

THICKNESS OR FEELER GAUGE

No. 359



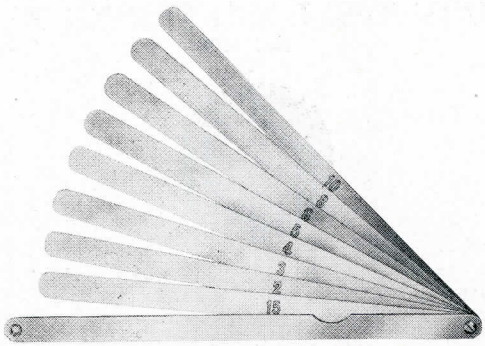
Although these are primarily tool makers' tools, this particular size is now widely used for setting automobile valves. It has 9 Leaves of the following thicknesses: .0015, .002, .003, .004, .006, .008, 010, .012, .015 inch. These make possible in combination almost any thickness by half-thousandths from .0015 to .0615.

Length of Leaf, 2¼ inches. Width of Leaf, ½ inch. Length over all, 2¾ inches.

List Price, Each **$1.60**

PARKHAM FEELER GAUGE NO. 1

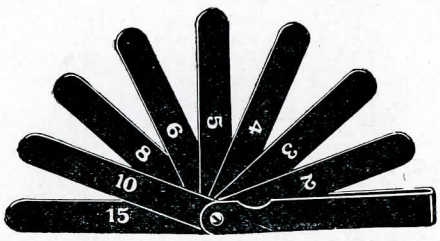
Made of Best Swedish Steel



8 blades, 8 inches long. Handle, 8 inches long. Overall length, 16 inches.

No. 1. Net Price, Each **$2.00**

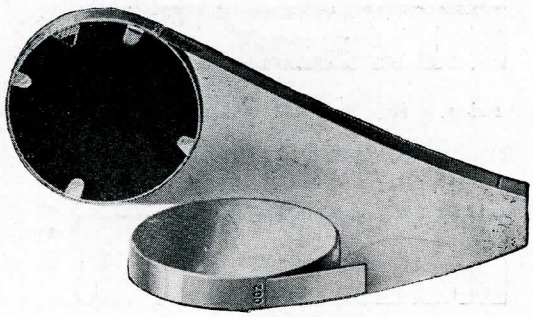
PARKHAM FEELER GAUGE NO. 2



9 blades, 3½ inches long. Handle, 3½ inches long, Overall length, 7 inches.

No. 2. Net Price, Each .....**$ .80**

FEELER GAUGE STOCK, IN ROLLS

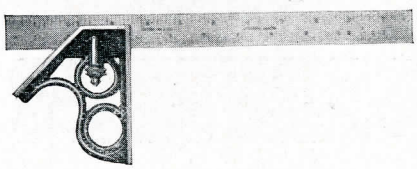


Made from the finest long grain Swedish steel, correctly tempered. Put up in 25-foot rolls, ½ inch wide, etched with thickness every 6 inches.

No.	Thickness	Net Resale per foot	Net Resale per roll
1371	.0015″	$ .34	$6.38
1372	.002″	.34	6.38
1373	.003″	.34	6.38
1374	.004″	.24	4.50
1375	.005″	.24	4.50
1376	.006″	.24	4.50
1377	.007″	.20	3.75
1378	.008″	.20	3.75
1379	.010″	.20	3.75
1380	.015″	.20	3.75

NO. 600A COMBINATION SQUARES

Without Level



Furnished with die cast square head. Size 12-inch only.

List Price, Each **$1.20**

NO. 600B COMBINATION SQUARES

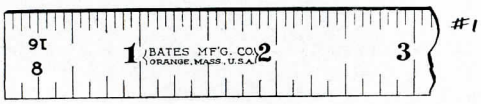
With Scriber and Level

	List Price, Each
6 in.	**$1.10**
9 in.	**1.30**
12 in.	**1.50**

NO. 420B FLEXIBLE RULE

List Price, 6 in., Each .....$ .35

NO. 400B STIFF RULE



List Price, 6 in., Each .....$ .35

UNION TEMPERED RULES

Narrow
No. 430 (English)

Length	4″	6″	9″	12″
List Price	$ .75	$ .90	$1.35	$1.65

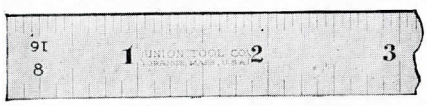
UNION TEMPERED RULES

Flexible
No. 420 (English)

Length	4″	6″	9″	12″
List Price	$ .40	$ .60	$1.00	$1.25

UNION TEMPERED RULES

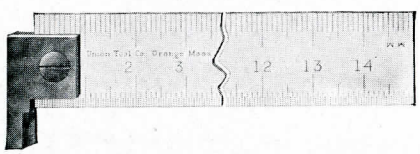
No. 400 (English)



Length	1″	2″	3″	4″	6″	9″	12″
List Price	$ .20	$ .25	$ .30	$ .40	$ .60	$1.00	$1.25

UNION HOOK RULE

No. 401



Length	6″	9″	12″
List Price	$1.25	$1.75	$2.15

UNION NARROW HOOK RULE

No. 431

Length	4″	6″
List Price	$1.00	$1.20

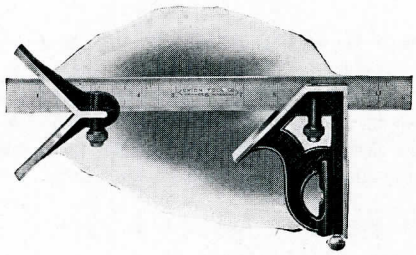
UNION CALIPER RULE

No. 450

Length	6″
List Price	$2.50

UNION COMBINATION SQUARE

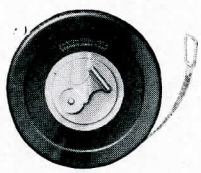
With Hardened Blades
No. 600



	List Price, Each
6″ with Center Head	$2.00
9″ with Center Head	2.50
12″ with Center Head	3.00
6″ with no Center Head	1.50
9″ with no Center Head	2.00
12″ with no Center Head	2.50

UNION STEEL MEASURING TAPE

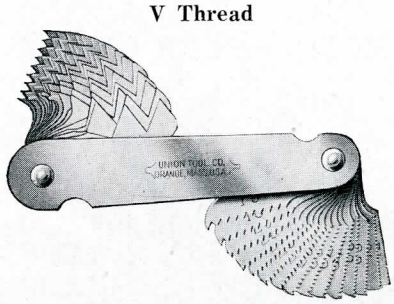
No. 1400



Length	Outside Diameter of Case	List Price, Each
25 ft.	2 1/8 inches	$3.85
50 ft.	3 1/2 inches	4.60
75 ft.	4 inches	6.00
100 ft.	4 1/2 inches	7.75

UNION THREAD GAUGE

No. 50
V Thread



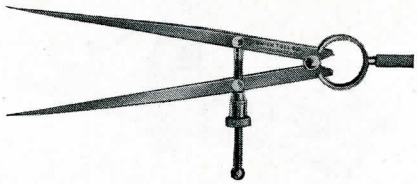
This Gauge has 30 pitches, as follows: 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42.

The teeth are accurately cut.

List Price, Each $1.25

SPRING DIVIDERS

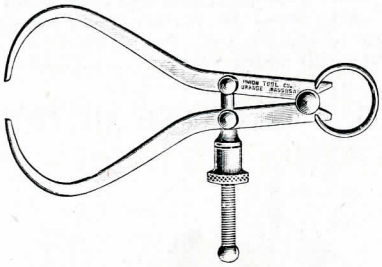
No. 10



	List Price, Each
2-inch	$ .75
3-inch	.80
4-inch	.85
5-inch	.90
6-inch	.95
8-inch	1.00

OUTSIDE SPRING CALIPERS

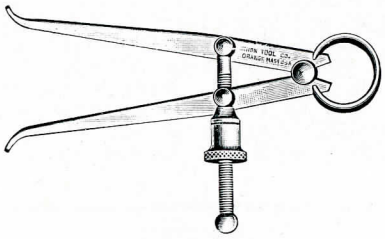
No. 12



	List Price, Each
2-inch	$ .75
3-inch	.80
4-inch	.85
5-inch	.90
6-inch	.95
8-inch	1.00

INSIDE SPRING CALIPERS

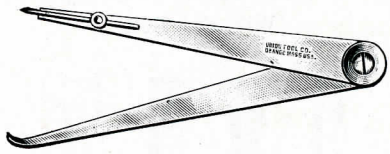
No. 14



	List Price, Each
2-inch	$ .75
3-inch	.80
4-inch	.85
5-inch	.90
6-inch	.95
8-inch	1.00

HERMAPHRODITE CALIPERS

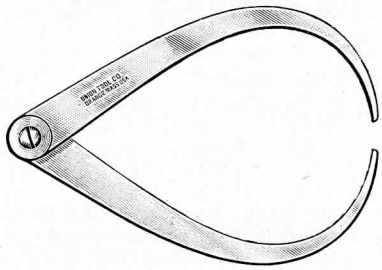
No. 19



	List Price, Each
4-inch	$ .80
6-inch	1.00
8-inch	1.20
10-inch	1.45
12-inch	1.75

OUTSIDE FIRM-JOINT CALIPERS

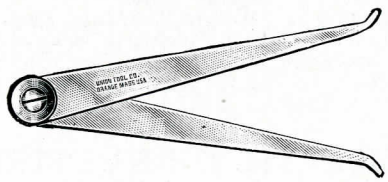
No. 15



	List Price, Each
4-inch	$ .60
6-inch	.70
8-inch	.80
10-inch	1.00
12-inch	1.10

INSIDE FIRM-JOINT CALIPERS

No. 17



	List Price, Each
4-inch	$ .60
6-inch	.70
8-inch	.80
10-inch	1.00
12-inch	1.10

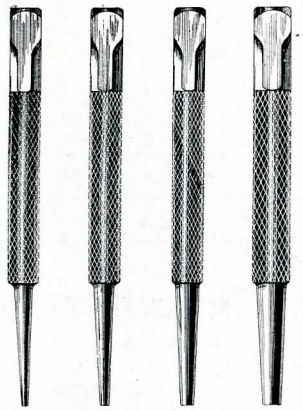
SCRATCH AWL OR SCRIBER

No. 321

Length 9 inches. List Price, Each ..... $ .35

IMPROVED SQUARE HEAD NAIL SETS NO. 60 AND CENTER PUNCHES NO. 62

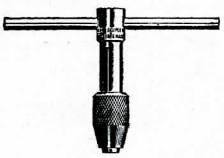
Will Not Roll



Size	Diam.	Point No. 60	Point No. 62	Length	List Price, Per Dozen
A	1/4	2/32	5/64	4 in.	**$1.75 doz.**
B	1/4	3/32	7/64	4 in.	**$1.75 doz.**
C	5/16	4/32	9/64	4 in.	**$1.75 doz.**
D	3/8	5/32	11/64	4 in.	**$1.75 doz.**

Made in four sizes. Hardened and tempered the entire length. Heads and points nicely polished on all 4-inch sizes. Six-inch size furnished with gun metal finish.

ADJUSTABLE TAP WRENCH



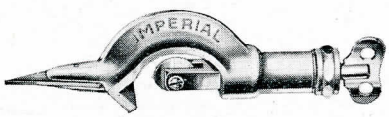
With Hardened Jaws and Shell

Top centered for use on back center of lathe when reaming a hole in work that is revolving in a chuck.

No. 25 Union

No. 0. Capacity 3/16". Weight 2 oz. List, Each .....$ .40
No. 1. Capacity 3/16" to 5/16" inclusive. Weight 3 oz.
List Price, Each .....$ .60
No. 2 Capacity 5/16" to 1/2" inclusive. Weight 9 oz.
List Price, Each $1.00

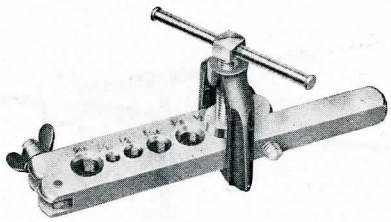
IMPERIAL TUBE CUTTER



A fitting companion to the Imperial Flaring Tool is this most efficient of all tools for cutting copper, brass, block tin and lead tubing. It takes all sizes of tubing from 1/8" to 5/8" and makes a right-angle cut, quickly and cleanly, leaving no burrs or chips to clog the line. The tubing does not get out of round as when put in a vise. For ease and efficiency, this tool can't be beat.

94-F Tube Cutter, Each, Net $2.50
96-F Extra Cutting Wheels, Each, Net ..... .25
97-F Extra Reamer Blades, Each, Net ..... .25

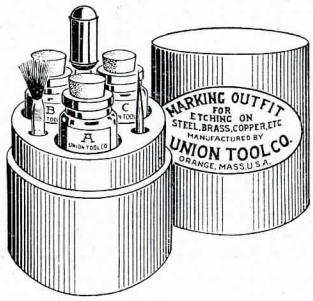
IMPERIAL FLARING TOOL



This new Imperial Flaring Tool flares copper tubing to make up S. A. E. joints without cracking or splitting. It can be used to flare tubing already in place on the car. With the S. A. E. coupling, a proper flare of the tubing is necessary to prevent leakage. This tool quickly gives the proper flare and taper to copper tubing 3/16, 1/4, 5/16, 3/8, 7/16 and 1/2 inch outside diameter. Note that it takes six different sizes. No. loose dies to become lost or mislaid. No vise necessary when you use this tool. Tubing can be clamped, flared and removed in less than 30 seconds. Wherever S. A. E. couplings are used, this tool is needed.

Cat. No.		Net Price, Each
93-F	Imperial Flaring Tool	**$3.00**
95-F	Imperial Flaring Tool, specially designed for sizes used in electrical refrigerator work. Sizes, 1/4, 5/16, 3/8, 1/2 and 5/8 inch outside diameter tubing	4.00

NO. 3 MARKING OUTFIT



The outfit consists of three bottles of liquid, a steel scriber, a camel hair brush, glass dropper, and a full set of directions for using, all packed in an attractive wooden keg.

Practically all kinds of metal can be marked with this outfit. It is indispensable in the machine and tool room, where jigs, fixtures, tools, etc., may be quickly and permanently marked. Any inscription or mark can be made quicker than with metal stamps, and the range of marking is unlimited.

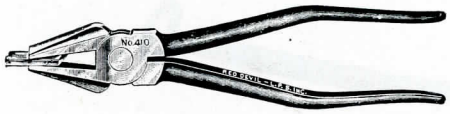
No. 3 Marking Outfit. List Price, Each $1.00

STEEL

Ask For Our Steel Department Catalog

BARS — ANGLES — SHEETS

PLATE GLASS PLIERS AND NIPPERS



No. 49 8", long, wide jaw, special handle as shown, per pair, Net $1.60

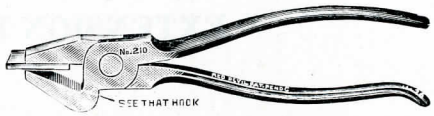
RED DEVIL

Hardened Steel Jaws—Handles left soft, Shape them as you like.

No. 5076. 6" long, Red Devil, hard steel jaws, black finish, per pair, Net $1.25
No. 6078. 8" long, Red Devil, hard steel jaws, polished head, per pair, Net 1.60

Stationary Jaws

No. 510. 8" long, Red Devil, inlaid steel jaws, ¾" wide, ¼" glass, per pair, Net $3.15
No. 510. 10" long, Red Devil, inlaid steel jaws, $\frac{13}{16}$" wide, ½" glass, per pair, Net 3.75



No. 110. 8½" long, Red Devil—Note how upper jaw holds glass while lower does the breaking at point of contact, per pair, Net $2.15

RED DEVIL GLASS CUTTERS

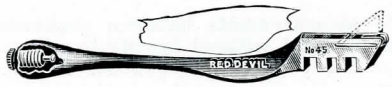
RED DEVIL NO. 024

"It's All in the Wheel"

"It's all in the wheel"

The most popular cutter on the market for general use. Per dozen, Net $1.75

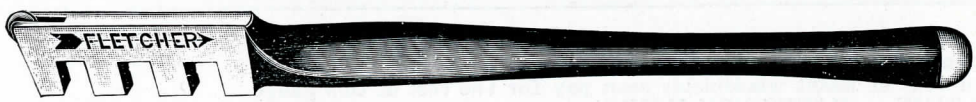
RED DEVIL NO. 45



"It's all in the wheel"

A practical cutter with six extra wheels in handle. Dull wheels can be instantly replaced. Heavy ball handles for tapping glass.
Net Each .....$ .45

FLETCHER GLASS CUTTERS



Fletcher No. 01 Gold Tip—Standard wheel; green handle; high grade cutter; specially adapted for general use on plate and window glass. Per doz..... $1.55
Fletcher No. 02 Gold Tip—Same high grade cutter as No. 01 with ball for tapping glass. Net per doz. $1.60
Fletcher No. 04 Gold Tip—Same as No. 05 but with plain handle, no ball. Net per doz. $1.60
Fletcher No. 05 Gold Tip—Has large wheel for cutting plate, ribbed, cathedral, etc., glass. Ball end for tapping. Net per doz. $1.65

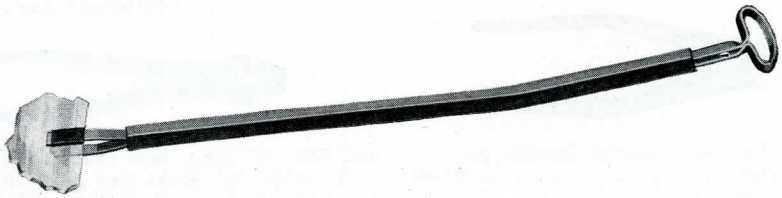
GLASS TAPPERS

No. 251. Finely balanced Tapper 9" long. Soft brass ball ¾" diameter. With long brass ferrule and hickory handle. Net each ..... $ .75

LANGE SLIDING RULE

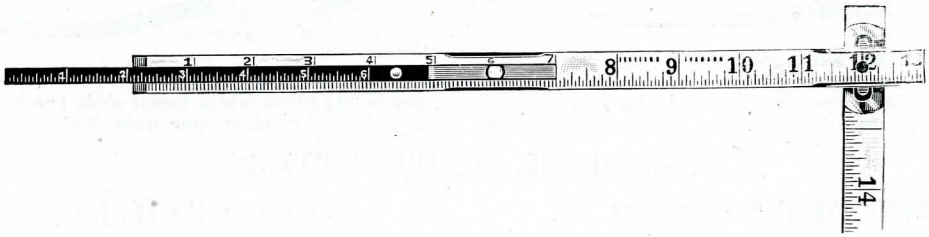
Lange designed this rule to provide you with the best possible means of accurately measuring the inside widths of sedan doors. Extends from 19 to 36 inches and is a big improvement over all other rules.
Net Price, Each ..... $ .55

LANGE GLASS REMOVER



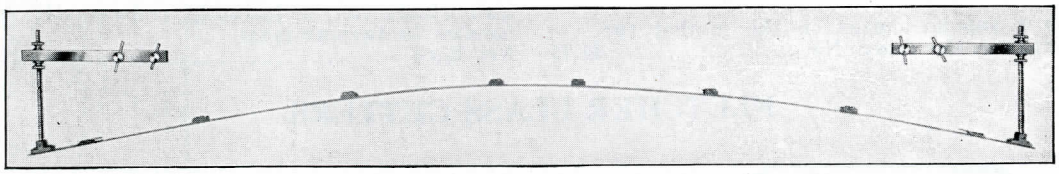
With this handy Lange Tool you can fish the broken glass out of sedan doors without any trouble, and without removing upholstery. Will last a lifetime. A big time and money saver. Net Price, Each **$3.05**

EXTENSION FOLDING RULE, 5-FOOT



For inside measurements between channels on sedan door glass. Adjustable from 6″ to 66″. Gives you exact measurement without having to adjust and measure a gauge. Adjustable slide is 6″ long. Net Price, Each **$1.10**

LANGE WINDSHIELD GAUGE



Lange extensions give you an unbroken edge, easy to follow.

A few miscut or misfit windshields soon pay for the cost of this gauge.

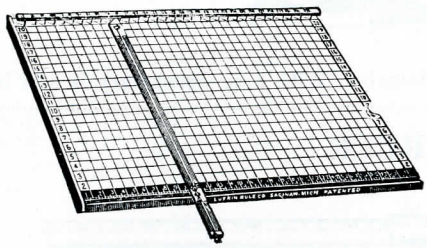
SAVES TIME — MAKES YOU MONEY.

The exclusive Lange Feature is the screw post arrangement with brass knurled nuts above and below the main cross bar that positively holds the flexible steel spring edge in any position, whether in the car or anywhere else.

Gauge and two extensions. For 42-inch and 44-inch openings. Net Each **$17.60**

GLASS CUTTING BOARDS

PERFECTION



Complete With Adjustable Straight Edge

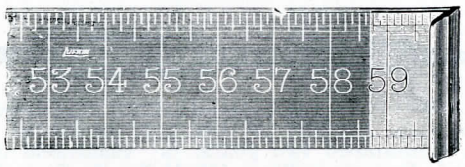
A modern device for cutting glass accurately and uniformly to size, marked in inches and factions — full instructions with board.

No.	Size	Net Price
200	24″x36″	**$20.65**
201	30″x48″	**26.15**
202	36″x54″	**30.25**
203	42″x60″	**34.40**
204	48″x72″	**44.00**

EXTRA STRAIGHT EDGES FOR PERFECTION BOARDS

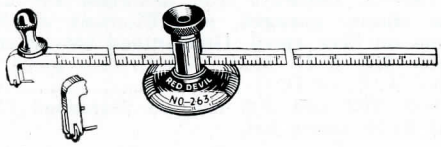
No.	Size Table	Net Price
210	24″x36″	**$5.50**
211	30″x48″	**5.80**
212	36″x54″	**6.05**
213	42″x60″	**6.35**
214	48″x72″	**6.60**

NO. 102 GLASS CUTTERS' LIP RULES



Made of hard maple. Dimensions suitable to withstand severest use. Heavy brass lip is riveted to one end of rule, extending $\frac{3}{16}$" from flat face of rule. Other end with brass tip. Plainly marked — both sides, both edges, inches to eights.
No. 102. Length 48". Size 2x4. Net Price Each **$3.95**

RED DEVIL CIRCLE CUTTER



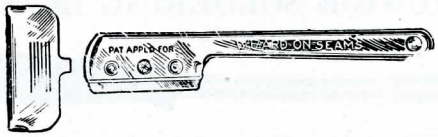
Cuts clean circles 2" to 24". Has metal base with rubber mat. Steel rod graduated by sixteenths. Has two extra cutting wheels.
Red Devil—No. 263—Net Each **$1.40**

CRESCENT WOOD CHISEL

Beveled Edge — All Steel

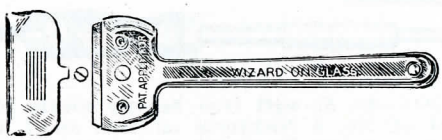
No. 175—¾" Blade. Net Price, Each .....**$ .42**
No. 175— 1" Blade. Net Price, Each ..... **.50**
No. 175—1¼" Blade. Net Price, Each ..... **.55**

NO. 8 CUTTER



For ripping out fabrics and trimming felts after setting glass.
Net Price, Each .....**$ .30**

NO. 9 SCRAPER



For scraping paints and lebels off glass. Has many other uses around the shop and home.
Net Price, Each .....**$ .30**

HUNT'S NO. 16 CARBON SCRAPER

A decided improvement over the old method of wire brush or knife for removing carbon from cylinder heads or valves. Made from a high grade of spring wire and is flexible to fit around valves and uneven surfaces, thus enabling the operator to do a first class job with ease and speed.
No. 16 Carbon Scraper, Net Each .....**$ .60**

FIRMER WOOD CHISEL

No. 11—Beveled Edge

No. 11. Beveled edge with leather tip handles. Blade 6 inches long.

Sizes, Inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2
List Price Each	$1.18	$1.18	$1.18	$1.18	$1.29	$1.33	$1.50	$1.54	$1.71	$1.83	$2.00	$2.08

KRAEUTER BARS

Kraeuter Jimmy Bars No. 491

Invaluable for aligning work and prying it into place. Very light to handle, but strong enough for the heaviest job. Should be in every workman's tool kit. Drop forged from "Chrome-Molly" Steel.

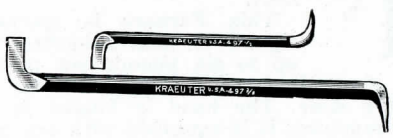
Number	Cut	Stock	Length	Wt. per Doz.	Price Each
491	¾"	⅝"	14"	12 lbs.	**$1.20**
	⅞"	¾"	16"	19½ lbs.	**1.40**

Kraeuter Rivet Busters No. 490

A practical tool especially designed for cutting rivets in places difficult to reach. Handy for dismantling old automobiles. Drop forged from "Chrome-Molly" Steel.

Number	Cut	Stock	Length	Wt. per Doz.	Price Each
490	⅝"	¾"	8"	11 lbs.	**$1.00**
	⅝"	¾"	12"	16½ lbs.	**1.25**
	¾"	⅞"	18"	37½ lbs.	**1.95**

Kraeuter "Two-Way" Offset Screwdrivers No. 497



For use on screws in difficult places. The handiest tool in the kit. Every mechanic should have one. Made from "Chrome-Molly" Steel. Made in two sizes.

Number	Size	Wt. per doz.	Price Each
497	¼ x 4½	13 ozs.	$ .45
	⅜ x 8	3 lbs. 8 ozs.	.65

DRAKE SOLDERING IRONS

JUNIOR SOLDERING IRON

No. 803—A 50-watt iron for radio and other light work. Element of No. 4 Nichrome on lava spool. Guaranteed two years. 5/8" removable tip. 6 ft. cord. Two piece plug. 110 volts A. C. or D. C. List **$2.00**

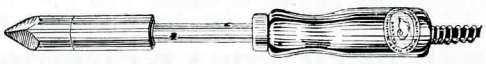
RADIO SOLDERING IRON

No. 603—A 70-watt iron designed especially for Radio work. Element of No. 4 Nichrome on lava spool. Guaranteed two years. 3/8" removable tip. 6 ft. cord. Two piece Plug. 110 Volts. A. C. or D. C. List **$3.00**

MASTER RADIO SOLDERING IRON

No. 500—An 80-watt iron heavily nickle plated. Element of No. 4 Nichrome on lava spool. Guaranteed two years. Two 3/8" removable tips. 6 ft. heater cord. Two piece plug. The 3/4" barrel is small enough for the most inaccessible places. 110 volts. A. C. or D. C. List **$4.00**

MECHANIC'S SOLDERING IRON



No. 703—A 130-watt iron designed for use in machine shops, garages, etc. Element of No. 4 Nichrome on lava spool. Guaranteed two years. 1" removable tip. 6 ft. heater cord. Two piece plug. 110 volts. A. C. or D. C. List **$6.00**

No. 603, 703 and 803 can be furnished for 32 Volts at $1.00 above list.

TINNERS' SOLDERING IRON

No. 600—A 500-watt iron designed for use in tin shops or wherever an iron for heavy work is needed. Element wound on high grade amber mica with No. 4 Nichrome. Guaranteed two years. 1 1/2" removable tip. 10 ft. heater cord. Unbreakable plug. 110 Volts. A. C. or D. C. List **$14.00**

NO. 4 HUNT'S THREAD FILE

This Thread File is a small tool for renewing threads on shafts, hubs, bolts, studs and other outside threads whether they are worn, burred or stripped. Because of its straight construction it will work inside the transmission case and will reach places that are inaccessible to the ordinary die set. This File has the following threads to the inch: 11, 12, 13, 14, 16, 18, 20, 24.

No. 4 Thread File, Net Each **$1.85**

SOLDERING COPPERS

With Square Points

Weight Per Pr. (2 Pcs.) lbs. 3/4, 1, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8.

Extras on account of size.

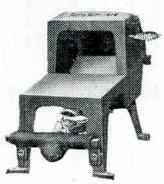
1 1/2 lbs. each and heavier .....**Base Price**

1 lb. each add to Base .....**$ .02**

3/4 lb. each add to Base .....**$ .03**

JOHNSON SERIES B SOLDERING FURNACE

No. 501



Length, 12 inches.

Weight, 15 lbs.

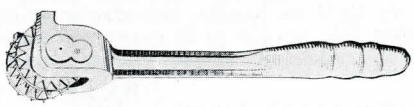
Firepot opening, 3 1/2x2 1/2 inches.

Gas Cons., 10 to 15 cu. ft. per hour.

This Furnace is specially designed to heat soldering coppers up to six pounds per pair. Heat-treating of small parts or metal melting can be successfully done. The hood is hinged or can be instantly removed. It is equipped with one powerful Johnson Bunsen Burner with shut-off valve and pilot light. The base is lined with fire-brick. A shelf in the rear of the fire-box forms a rest and protects the points of soldering coppers, and the Johnson Patented curved shaped hood forces a return blast over the tops of the irons or parts being heated.

Net Price, Each **$7.00**

DESMOND-HUNTINGTON DRESSERS



Cutters are made of tool steel, cheapest in the long run, and mounted on bushings, running between washers, give longest wear. Safety hood protects the operator.

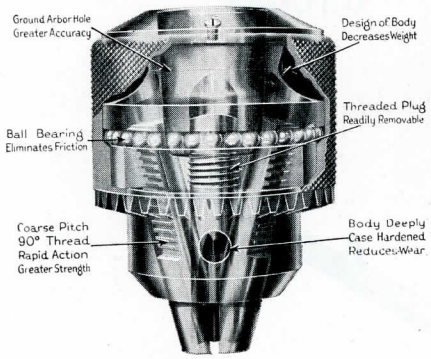
No. 0 Dresser, The Ordinary Huntington, Net Each .....**$ .75**

No. 0 Cutters. Price, Net Per Doz. **1.00**

No. 1 Dresser, 12" long, Weight 2 1/2 lbs., Net Each **1.50**

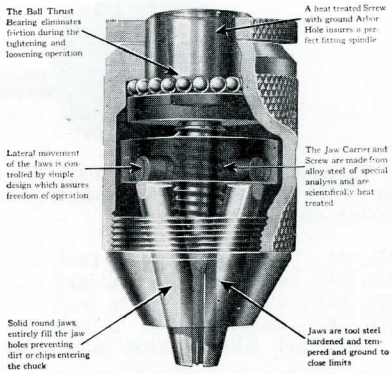
No. 1 Cutters, 1 1/2" Diam., 4 in Set. Net Per Doz. Sets **2.00**

JACOBS CHUCKS


Ground Arbor Hole Greater Accuracy
Design of Body Decreases Weight
Threaded Plug Readily Removable
Ball Bearing Eliminates Friction
Coarse Pitch 90° Thread Rapid Action Greater Strength
Body Deeply Case Hardened Reduces Wear

Jacobs Super Chuck
(Ball Bearing)

Jacobs Plain Bearing Chuck
(Improved Type)


The Ball Thrust Bearing eliminates friction during the tightening and loosening operation
A heat treated Screw with ground Arbor Hole insures a perfect fitting spindle
Lateral movement of the Jaws is controlled by simple design which assures freedom of operation
The Jaw Carrier and Screw are made from alloy steel of special analysis and are scientifically heat treated
Solid round jaws entirely fill the jaw holes preventing dirt or chips entering the chuck
Jaws are tool steel hardened and tempered and ground to close limits

Jacobs Portomatic Chuck
(Keyless Type)

The increased efficiency of high speed tools and machines, calling for more accurate and adequate means of holding tools or work, has necessitated advanced chuck designs. This has been anticipated by new Jacobs Chuck models—the Ball Bearing Super Chuck for heavy duty operation, the Plain Bearing Chuck for light and portable drilling and the new Portomatic Keyless Type.

These advanced chuck designs represent years of experimental work and should be used wherever possible if the greatest efficiency is to be secured. The selection of the right chuck for the right purpose has been simplified—new models have been added and duplications have been eliminated yet all told there are fewer models than ever before and the drilling field is more adequately covered. Where present equipment demands models other than those listed they can be furnished to take care of every requirement.

The Jacobs Ball Bearing Super Chuck is recommended for use in the machine shop and tool room—on drilling machines, lathes, screw machines and on every drilling operation requiring gripping power, accuracy and the highest degree of wearing quality. The ball bearings eliminate friction making this chuck easy to operate. It may be tightened by hand for ordinary drilling and tool work and only a slight pressure on the spiral gear key is necessary for the heaviest drilling. This chuck is interchangeable on all present Jacobs equipped spindles:

Model No.	Capacity	List Price	Taper
8½S	0-¼"	**$6.00**	No. 2
9S	0-5/16"	**7.00**	No. 2
11S	0-⅜"	**8.00**	No. 2
14S	0-½"	**10.00**	No. 3
16	1/16-⅝"	**12.50**	No. 3
18	1/16-¾"	**15.00**	No. 4
20	⅜-1"	**20.00**	No. 5

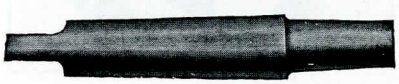
The Jacobs Portomatic Chuck is a new model designed particularly for use on portable drills where the keyless or hand operated feature is desirable. Collars for holding the spindle are furnished as standard equipment.

Model No.	Capacity	List Price	Taper
250	0-¼"	**$5.00**	No. 2
312	0-5/16"	**6.00**	No. 2
375	0-⅜"	**6.00**	No. 2
500	1/16-½"	**10.00**	No. 6
			Thread
250-B	0-¼"	**5.00**	⅜" x 24p ½" x 20p
312-B	0-5/16"	**6.00**	⅜" x 24p ½" x 20p
375-B	⅜"	**6.00**	½" x 20p ⅝" x 16p
500-B	1/16-½"	**10.00**	⅝" x 16p

The Jacobs Plain Bearing Chuck is recommended for use on portable drills, drill presses, bench grinders and tapping devices where its combination of simplicity, ruggedness and gripping power for sensitive, high speed or any other form of light precision drilling is unsurpassed except by the Ball Bearing Super Chuck.

Model No.	Capacity	List Price	Taper
0	0-⅛"	**$6.00**	No. 0
1	0-3/16"	**4.50**	No. 1
1A	0-¼"	**4.50**	No. 1
7	0-¼"	**4.50**	No. 2
30	0-5/16"	**5.50**	No. 2
32	0-⅜"	**5.50**	No. 2
34	0-½"	**9.00**	No. 6
3A	⅛-⅝"	**9.00**	No. 3
36	3/16-¾"	**12.00**	No. 3
			Thread
7B	0-¼"	**$4.50**	⅜" x 24p ½" x 20p
30B	0-5/16"	**5.50**	⅜" x 24p ½" x 20p
32B	0-⅜"	**5.50**	½" x 20p ⅝" x 16p
34B	0-½"	**9.00**	45/64" x 16p ⅝" x 16p
3B	⅛-⅝"	**9.00**	⅝" x 16p 45/64" x 16p
36B	3/16-¾"	**12.00**	⅝" x 16p

ARBORS FOR JACOBS CHUCKS



Arbors are regularly furnished to fit all standard makes of machine tools. Being accurately ground on centers, Jacobs Arbors insure an accurate fitting chuck. The following fit any model of the Jacobs Chucks.

No. 1 Morse Taper	**$ .80**
No. 2 Morse Taper	**.80**
No. 3 Morse Taper	**1.20**
No. 4 Morse Taper	**2.00**
No. 5 Morse Taper	**3.50**
½" Straight Shank	**.75**
41/64" Straight Shank	**.75**

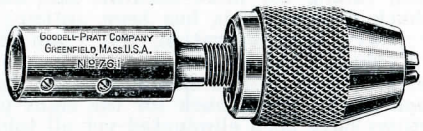
GOODELL-PRATT DRILL CHUCKS

These Chucks are fitted with lathe-turned ½ inch or 41/64 inch Shanks. In ordering, be sure to specify which size is desired.

		List Price, Each
No. 14.	Capacity 0 to 5/32 inch	$1.40
No. 15.	Capacity 0 to ¼ inch	1.80
No. 15½.	Capacity 0 to ⅜ inch	2.20
No. 16.	Capacity 0 to ½ inch	3.00

Half-inch Shanks sent unless otherwise specified.

SMALL MOTOR ATTACHMENTS

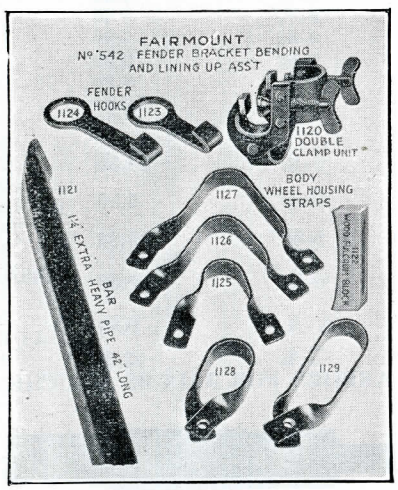


Fitting Motors with ½-inch Shaft
No. 761 Drill Chuck

This is our regular No. 15½ Chuck, described on page 125, mounted on a special arbor to fit a ½ inch shaft. Arbor is fitted with two set screws. Chuck has three hardened steel jaws for holding round shank drills from 0 to ⅜ inch in diameter. Length over all, 4¼ inches.

Price, Each, List $3.30

FAIRMOUNT BRACKET BENDING AND LINING UP ASSORTMENT

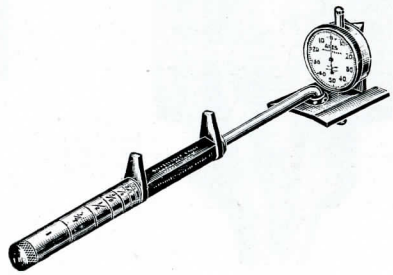


No. 542 Assortment contains:

No. 1120 Drop Forged Double Clamp Unit	$3.00
No. 1121 Pry Bar 1¼ in. Extra Heavy Pipe End Forged for use with 1122 Block	2.50
No. 1122 Wood Fulcrum Block	.40
Nos. 1123, 1124 Fender Hooks, each	.30
Nos. 1125, 1126, 1127 Body Wheel Housing Straps, each	.30
Nos. 1128, 1129 Cowl Straps, each	.30
No. 542 Assortment, complete, each	8.09

Each set is packed complete in strong cardboard carton. Weight, 17 lbs.

AMES JUNIOR CYLINDER GAUGES



This cylinder gauge with setting tool handle tells cylinder wear, taper and piston ring size.

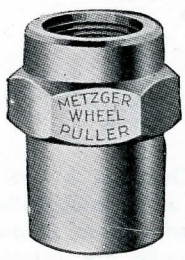
No other tool is required.

The screw point has a large diameter thread and will not break off. Light contact with cylinder walls prevents scoring cylinders. Points of different lengths 2½ to 5¾-inch cylinders contained in setting tool handle, marked in sizes. Points for larger diameter cylinder furnished upon request.

The dial face is easy to read. Graduations in thousandths of an inch. Unbreakable crystal. Dial turns left or right to bring 0 under pointer.

Gauge with setting Tool Handle, List Complete $17.50
Gauge with plain Handle, List Complete 15.00

Metzger Wheel Pullers



METZGER WHEEL PULLERS WILL PULL ANY WHEEL

Fastest and most practical Pullers made.

MADE IN FOUR SIZES. LIST PRICE, $3.00 PER SET OF FOUR.

Shipping weight per set—4 pounds

Prices on Individual Pullers

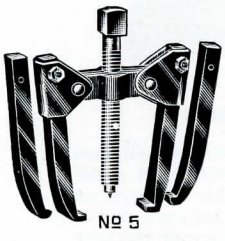
No. 1	⅝-inch—18 Thread	$ .60
No. 2	¾-inch—16 Thread	.70
No. 3	⅞-inch—14 Thread	.80
No. 4	1-inch—14 Thread	.90

COMPLETE LINE OF METZGER WHEEL PULLERS CARRIED IN STOCK.

Every Wheel Puller tested and guaranteed perfect

GEAR PULLERS

NO. 5 HUNT'S GEAR PULLER



The handiest Puller ever devised for small pulling jobs such as generator gears, bearings and general electrical repair work and is also an ideal tool for removing tight battery terminals. It exerts a straight positive pressure, thus eliminating all chance of broken battery posts.

Comes with narrow and wide sets of jaws, both being necessary for general purposes. This Puller can also be used for removing the smaller timing gears, such as are found on electric light plants and gasoline engines.

No. 5 Gear Puller with wide jaws only, net Each **$3.50**

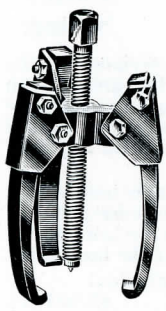
No. 5 Gear Puller with both pair jaws, net each **$5.00**

NO. 15 WITH 3 SETS OF JAWS

Our No. 15 Gear Puller equipped with three sets of jaws is absolutely the last word in convenient gear puller construction and with this equipment you can pull practically any set of timing gears including Buick, Chevrolet, Dodge, Maxwell, Oakland, Overland, Oldsmobile, Nash, and many others not mentioned.

No. 15. Net Each **$12.00**

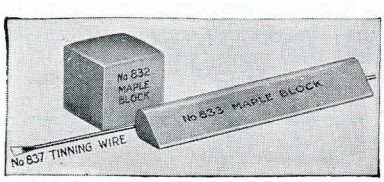
NO. 18 HUNT'S 3-JAW PULLER



Built in the same size as our No. 15 Gear Puller with the exception that it has three jaws instead of two, this puller will handle the odd jobs where a 3-jaw puller is a necessity. The jaws are narrow, have a depth reach of 6" and a spread of 8". This Puller also has the full automatic self-gripping feature and is an ideal tool for timing gears with three openings or other work that requires a light, convenient and powerful 3-jaw Puller.

No. 18 3-Jaw Puller, Net Each **$10.00**

WOOD BLOCKS FOR SMOOTHING BODY FILLER METAL

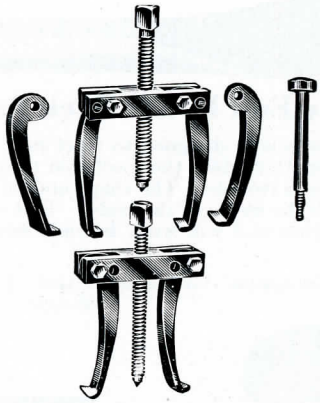


No. **832** Block, 1¾ x 1¾ x 1¾ in.,..each **$.25**

No. **833** Block, 1¼x$\frac{13}{16}$x6⅜ in. ...each **$.25**

No. **837** Tinning Rod, $\frac{3}{32}$ in. Wire, 12 in. long..ea. **$.25**

NO. 12-3 HUNT'S BAR PULLER

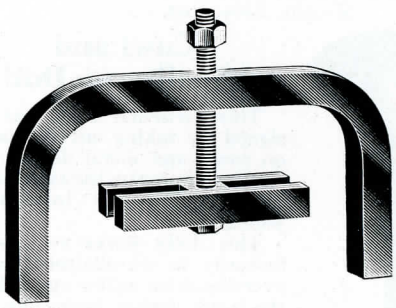


Made from chrome nickel steel, highly tempered and guaranteed not to break. Three sets of jaws are furnished, namely: Wide, Narrow and Stud Jaws. While built especially for timing gear work, it will handle many other jobs, such as the Chevrolet crankshaft timing gear and Studebaker starter clutch. Screw furnished with Puller is 7¾ inches long.

Jaws can be adjusted for pulling different size gears and can also be reversed to pull from the inside of a gear instead of the outside. Full automatic grip in either position guarantees a satisfactory pulling job. Will pull gears up to 7 inches in diameter and has a depth reach of 5 inches.

No. 12 Bar and Screw only, Net ..... **$ 3.50**
No. 12 Wide or Narrow Jaws, per pair, Net.... **2.50**
No. 12 Stud Jaws, pair, Net **1.50**
No. 12 Puller Complete with three set jaws, Net **10.00**

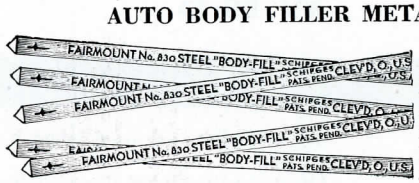
NO. 21 HUNT'S HUDSON ESSEX BEARING PULLER



This special Puller is for removing the main bearing used on the Continental Motors and is absolutely necessary for this job. Although designed for servicing principally the Essex and Hudson Motors, it will also service all Continental Motors. The Puller is well built to give years of service and is accurately machined for this particular job. Shipping weight, 3 lbs.

No. 21 Bearing Puller, net **$2.50**

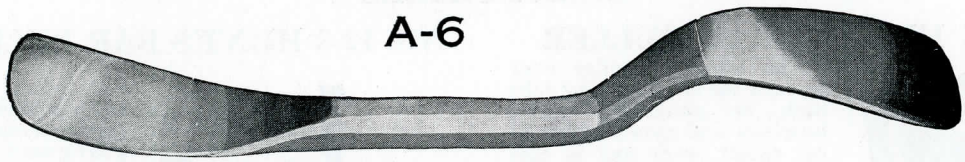
AUTO BODY FILLER METAL



No. 830 in 5, 10, 25 and 50 lb. packages; No. 831 in 1, 5, and 10 lb. packages.

	Description	Per Lb.
No. **830**	Steel "Body Fill" Metal, 13-in. bars....	**$ .60**
No. **831**	Aluminum Tinning Metal, 11-in. bars..	**2.50**

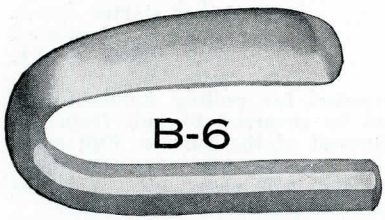
TRIMO-FERGUSON BODY AND FENDER TOOLS



Double End Lower Back Panel and Wheelhouse Spoon

This spoon was specially designed to meet new requirements in lower back panels and wheelhouse work. The extra length enables the mechanic to quickly and efficiently handle a badly damaged panel which has always given trouble. The shape and face radius of this spoon allows the operator to press out most of the job from the inside of the body. This spoon is made very strong. The face on each end is forged and ground thin so it will work behind back panel strainers, center sills, lower sills and the rear wheelhouse posts.

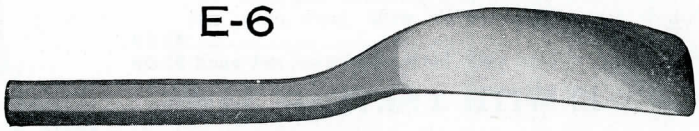
Drop Forged from Chrome-Vanadium Steel—Price, packed in individual box.....**$5.25** Each
Weight, 3 lbs. 5 oz.



Fender and Cowl Bracket Spoon

This spoon was designed to hook over front fender bracket. It eliminates removing front wheels and gives the operator direct pressure where a dolly block cannot be used. Special attention was given to the design of this tool, to work over cowl strainers and cowl brackets from post to dash.

Price, packed in individual box..**$3.75** Each
Weight, 2 lbs. 1 oz.



Body Post, Hinge and Center Panel Spoon

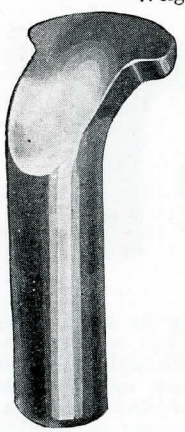
This tool was developed to remove low spots from behind center panel boards, body posts, window frames and upper back panels, where no leverage is available.

It, being small and thin, with proper face, works through hinge holes removing all metal bumps around hinges.

Its proper degree of face radius makes it a perfect spoon for surface work.

This drop forged spoon is thoroughly heat treated to stand the hard work of body repairing.

Price, packed in individual box.....**$3.00** Each
Weight, 1 lb. 4 oz.

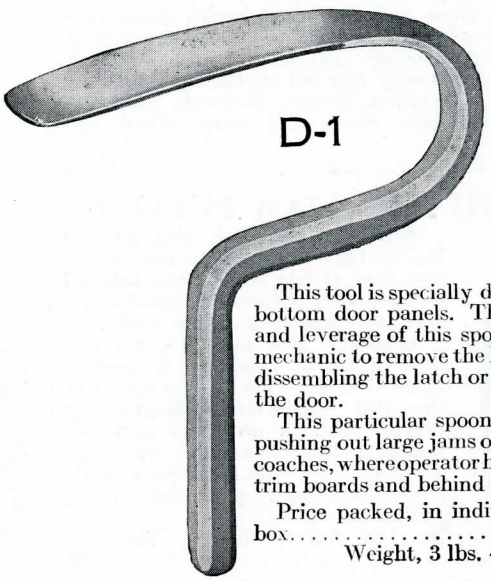


Cowl and Wheelhouse Dolly

This particular dolly was designed for taking out all bumps on cowls and metal dashes. It further eliminates the extra labor of removing the instrument panel.

This dolly works very satisfactorily in wheelhouses, going over the drain gutter and behind the inside fender lugs—also the raised panels in new style cowls and hoods. The construction of this dolly gives the mechanic a perfect tool for top rail panels and radiator splash aprons.

Price, packed in individual box..... **$4.00** Each
Weight, 3 lbs. 1 oz.

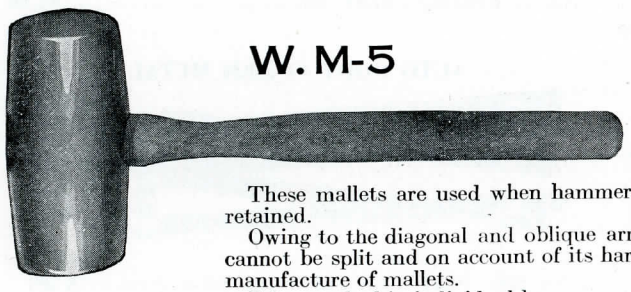


Special Door and Side Panel Spoon

This tool is specially designed for the bottom door panels. The great depth and leverage of this spoon enables the mechanic to remove the bumps without dissembling the latch or trim boards of the door.

This particular spoon is used also in pushing out large jams on side panels of coaches, where operator has to work over trim boards and behind the body sills.

Price packed, in individual box..... **$5.50** Each
Weight, 3 lbs. 4 oz.



Lignum Vitae Bumping Mallet

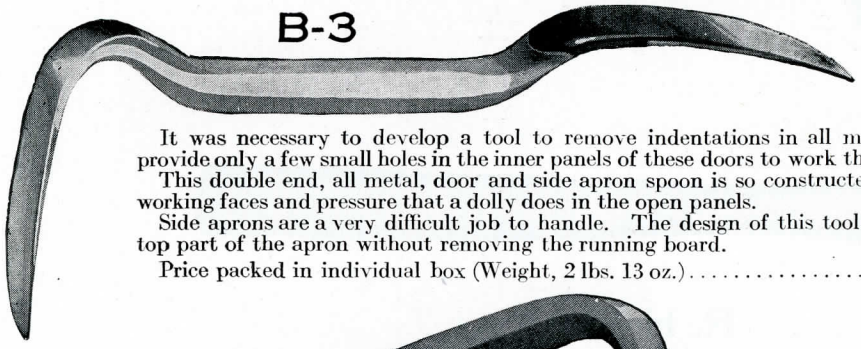
This No. 5 Lignum Vitae Bumping Mallet has been carefully designed. Both faces are beveled and polished. It is properly balanced.

These mallets are used when hammering panels and fenders where the paint finish must be retained.

Owing to the diagonal and oblique arrangement of the successive layers of its fibre, the wood cannot be split and on account of its hardness, density and durability, it is much valued for the manufacture of mallets.

Price, packed in individual box.....**$0.75** Each
Weight, 12 ozs.

TRIMO-FERGUSON BODY AND FENDER TOOLS



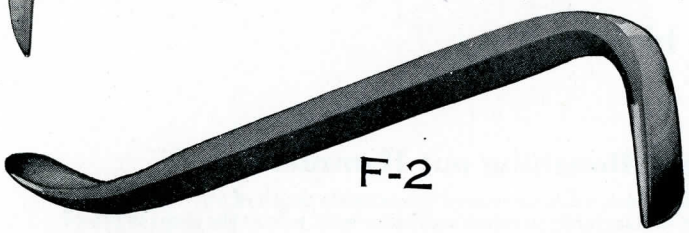
Double End All-Metal Door and Side Apron Spoon

It was necessary to develop a tool to remove indentations in all metal doors as car manufacturers provide only a few small holes in the inner panels of these doors to work through.

This double end, all metal, door and side apron spoon is so constructed to give the mechanic the same working faces and pressure that a dolly does in the open panels.

Side aprons are a very difficult job to handle. The design of this tool enables the operator to reach the top part of the apron without removing the running board.

Price packed in individual box (Weight, 2 lbs. 13 oz.).....**$5.00** Each



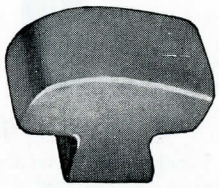
Double End Heavy Duty Driving Spoon

This double end heavy duty driving spoon was developed to handle the following operations:

The oval end for setting inside seams of front fenders, lifting the hinge pins, bumping top rail panels, head lamps and hood louvres.

The right angle end for straightening drip mouldings, driving rear fenders up to running boards, also for a calking iron in wheelhouses and deck panels in coupes and roadsters, and for a beading tool in general.

Price packed in individual box (Weight, 2 lbs. 8 oz.).....**$3.75** Each



G. D-1

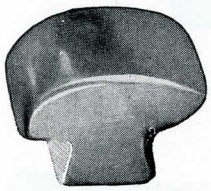
Low Crown Bumping Dolly Block

The contour of this dolly block accurately fits each panel radius as follows: Low Crown fenders, straight side of hoods, cowls, doors, wheelhouses, side beads of fenders, side aprons and bodies.

This low crown dolly is a hand ground tool, developed to fit the surfaces of straight line bodies in open panel repair work.

Price packed in individual box.....**$5.00** Each
Weight, 2 lbs. 12 oz.

High Crown Bumping Dolly Block

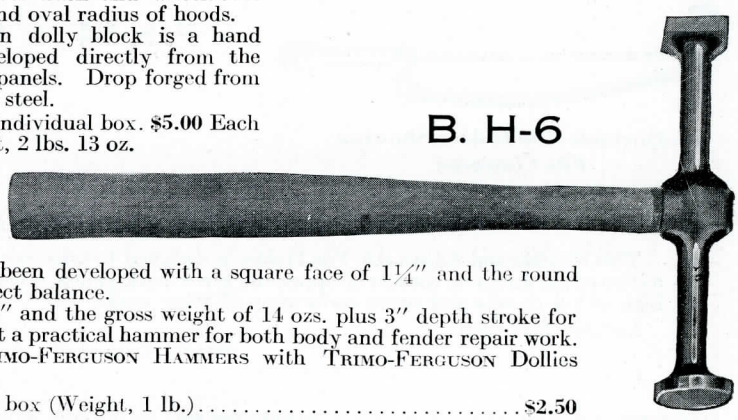


G. D-2

The contour of this tool accurately fits each panel radius as follows: High Crown fenders, sweep panels of front fenders, center beads in all the new style fenders, oval corners in upper back panels, head lamps, radiator shells, rear corners of lower back and wheelhouse panels, and high and oval radius of hoods.

This high crown dolly block is a hand ground tool, developed directly from the above mentioned panels. Drop forged from Chrome Vanadium steel.

Price packed in individual box. **$5.00** Each
Weight, 2 lbs. 13 oz.



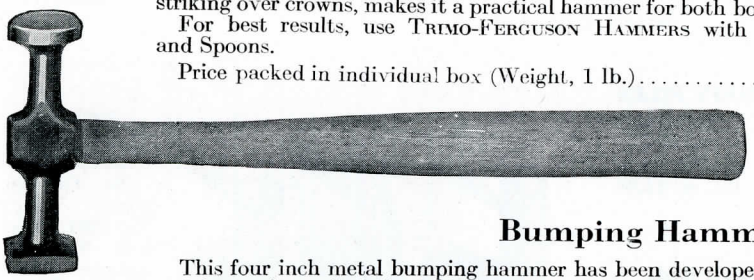
Bumping Hammer 6″

This six inch metal bumping hammer has been developed with a square face of 1¼″ and the round end has a face of 1⅜″ which gives it a perfect balance.

The overall length of 12⅛″ and the gross weight of 14 ozs. plus 3″ depth stroke for striking over crowns, makes it a practical hammer for both body and fender repair work.

For best results, use Trimo-Ferguson Hammers with Trimo-Ferguson Dollies and Spoons.

Price packed in individual box (Weight, 1 lb.).....**$2.50**



Bumping Hammer 4″

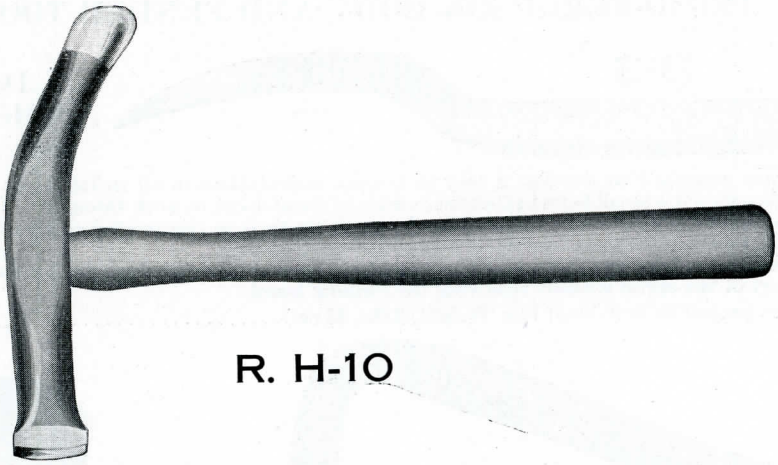
This four inch metal bumping hammer has been developed with a square face of 1¼″ and the round end has a face of 1⅜″ which gives it a perfect balance.

The overall length of 12⅛″ and the gross weight of 12 oz. makes it a standard hammer for both rough and finish work.

Special attention has been given to the design of both handle and faces of this tool. The faces are finished by being hand ground both ways giving it a perfect working face radius.

For best results use Trimo-Ferguson Hammers with Trimo-Ferguson Dollies and Spoons.

Price packed in individual box (Weight, 14 oz.).....**$1.50**



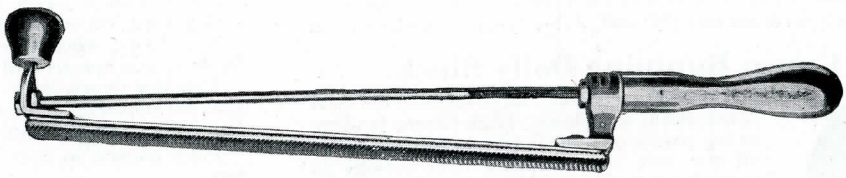
R. H-10

Special Designed Roughing out Hammer

Peening End has a depth stroke of 5 inches which will take care of the extreme depth of any High Crown fenders, also this end of hammer can be used satisfactorily in repairing fender weld jobs as the great depth of Peening End enables operator to reach and use same as a dolly. Driving End works good with F2 Driving spoon, setting inside seams on front fenders, lifting hinge pins, driving rear fenders up to running boards and roughing out work in general.

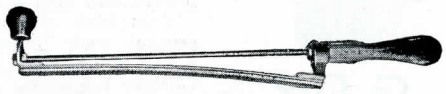
Drop Forged from Chrome-Vanadium Steel—List, each **$4.00**

Weight, 3 lbs. 11 oz.



F. H-14

Adjustable File Holder Showing File Convexed



Adjustable File Holder Showing File Concaved

Flexible and Adjustable File Holder

This Flexible and Adjustable File Holder is designed to take care of all filing jobs with one holder—such as the round and oval corners of upper and lower back panels, cowls, hoods, top rail panels, straight work, high or low crowns and sweep surfaces on all filing work.

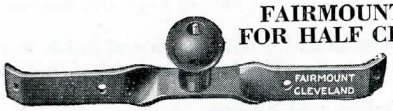
List, less files, each **$3.00**

Weight, 2 lbs. 4 oz.

FAIRMOUNT HOLDER FOR FLAT BODY FILES

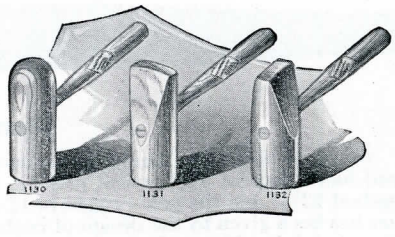
For 12 and 14 in. files. No. **1055,** 1¼ lbs., ea. **$1.00**

FAIRMOUNT HOLDER FOR HALF CIRCLE FILES



14 oz., 1¼ by 12 inches.

No. 1156 Holder ..... each **$1.00**

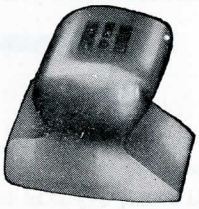


BODY WORKERS' MALLETS

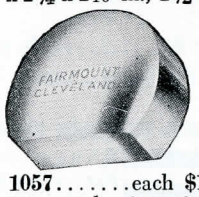
No. **1130** is round pein; No. **1131** cross pein; No. **1132** straight pein. All are of hickory, 2 by 5½ in., 10 oz. Each .... **$.60**

FAIRMOUNT DROP FORGED DOLLY BLOCKS
Tempered and Highly Polished

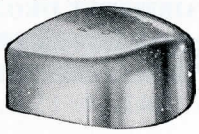
No. **1058**.....each **$1.50**
4¾ x 2¼ x 1 1/16 in., 2½ lbs.



No. **1060**.....each **$3.50**
2⅞x2⅜x2¼ in., 2¾ lbs.

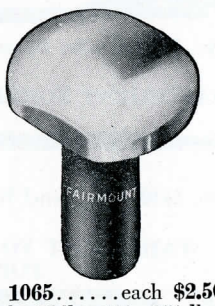


No. **1057**.....each **$1.75**
3 x 2½ x 1 1/16 in., 2 lbs.



No. **1059**.....each **$1.50**
3⅛x2⅜x1 7/16 in., 2½ lbs.

No. **1064**.....each **$1.50**
4½ x 1½ x 1 in., 1¾ lbs.



No. **1056** 26 oz..each **$1.25**
No. **1062** 2½ lbs..ea. **1.50**
Note: No. 1056 for 5/32 and ¼ inch Beads.
No. 1062 for 5/16 and ⅝ inch Beads.

No. **1065**.....each **$2.50**
3x2 5/16. Hdle. ,1¼., 2⅝ lbs.

FAIRMOUNT DROP FORGED BUMPING HAMMER

Ebony, Polished. 14 oz.

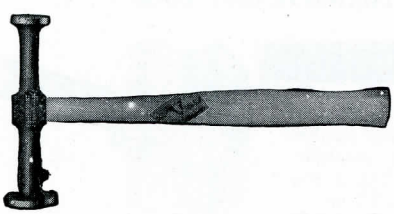
No. **160 G** Bumping Hammer....each **$1.00**

FAIRMOUNT DROP FORGED BUMPING HAMMER

Ebony, Polished. 9 oz.

No. **161G** Bumping Hammer....each **$1.25**

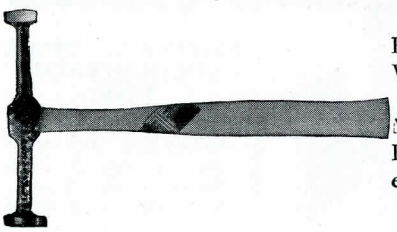
FAIRMOUNT DROP FORGED DING HAMMER



Ebony, Polished. Head **6** in. from crown to crown. Wgt., 13 oz.

No. **150G** Ding Hammer each ...**$2.00**

FAIRMOUNT DROP FORGED DING HAMMER



Ebony, Polished. Weight, 10 oz.

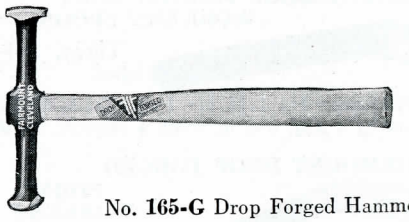
No. **151G** Ding Hammer each **$2.00**

FAIRMOUNT DROP FORGED HALF HAMMERS

5 ounces

No. **163-G** Half Hammer.....each **$1.00**

FAIRMOUNT DROP FORGED FLANGING HAMMER

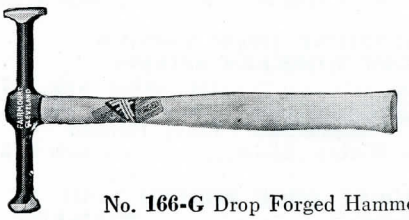


Ebony and polished.

Weight, **12** ounces.

No. **165-G** Drop Forged Hammer..each **$2.00**

FAIRMOUNT DROP FORGED FLANGING HAMMER



Ebony and polished.

Weight, **9** ounces.

No. **166-G** Drop Forged Hammer..each **$2.00**

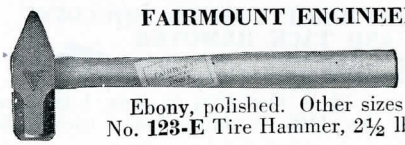
FAIRMOUNT DROP FORGED FENDER BUMPER

For bumping the dents out of fenders without removing either the wheel or the tire, and without removing fender.

Ebony and polished. Length of head, 8½ inches. Weight, 1½ pounds.

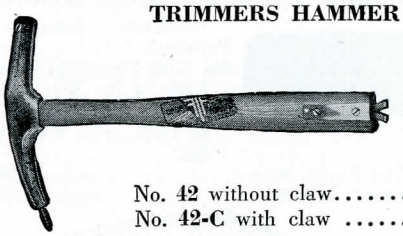
No. **155** Fender Bumper.....each **$2.00**

FAIRMOUNT ENGINEERS' OR TIRE HAMMER



Ebony, polished. Other sizes 18 oz. to 4 lbs.
No. **123-E** Tire Hammer, 2½ lbs...each **$1.60**

FAIRMOUNT DROP FORGED MAGNETIC TRIMMERS HAMMER



Highly polished. Weight 7 ounces.

No. **42** without claw.....each **$2.00**
No. **42-C** with claw .....each **2.50**

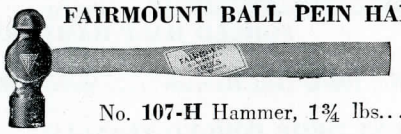
FAIRMOUNT DROP FORGED TRIMMERS' HAMMER

Ebony and polished.

Weight 8 ounces.

No. **22-G** without claw .....each **$1.00**
No. **22-G** with claw .....each **1.50**

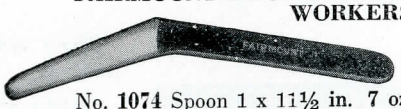
FAIRMOUNT BALL PEIN HAMMERS



Polished. Made in 4 oz. to 3 lbs. sizes.

No. **107-H** Hammer, 1¾ lbs.....each **$1.25**

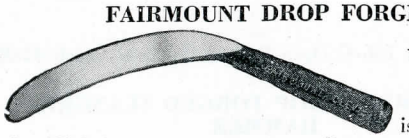
FAIRMOUNT DROP FORGED BODY WORKERS' SPOONS



Ebony, Polished.

No. **1074** Spoon 1 x 11½ in. 7 oz... each **$0.75**
No. **1075** Spoon ½ x 3½, 6½ in. long, 4 oz.each **.70**

FAIRMOUNT DROP FORGED BODY WORKERS' SPOONS



Ebony, Polished.

No. **1054** Spoons 2 x 10½ in. 1 lb.....each **$1.25**

FAIRMOUNT DROP FORGED BODY WORKERS' SPOONS

1⅛ inches wide. 7 inches long. 5½ oz. Ebony, Polished.

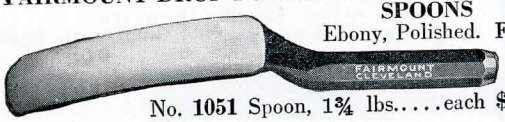
No. **1042** Body Workers' Spoon.....each **$.75**

FAIRMOUNT DROP FORGED BODY WORKERS' SPOONS

Ebony, Polished.

No. **1043** Spoon 1¼x10¼ in., 11½ oz.....each **$1.00**

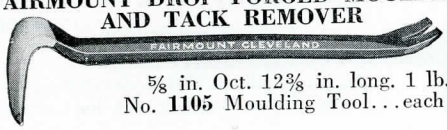
FAIRMOUNT DROP FORGED BODY WORKERS' SPOONS



Ebony, Polished. Face, 2x7 in.

No. **1051** Spoon, 1¾ lbs.....each **$2.00**

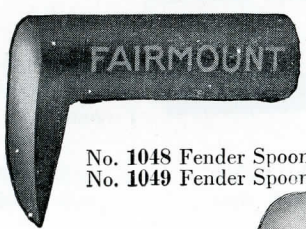
FAIRMOUNT DROP FORGED MOULDING AND TACK REMOVER



⅝ in. Oct. 12⅜ in. long. 1 lb. 3 oz.

No. **1105** Moulding Tool...each **$1.50**

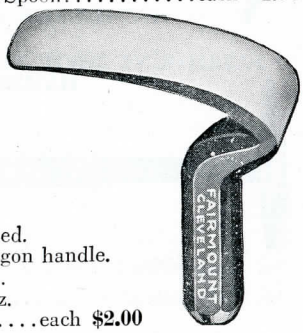
FAIRMOUNT DROP FORGED FENDER SPOONS



Hardened. Ebony, Polished.

No. 1048 Face 2½x⅞ in. Lgth., 4 in. Wt. 1 lb.
No. 1049 Face 2¾x1¼ in. Lgth., 4 in. Wt. 1½ lbs.

No. **1048** Fender Spoon.....each **$1.00**
No. **1049** Fender Spoon.....each **1.50**



No. 1050. Ebony, Polished.
One inch octagon handle.
Face 1½x5 in.
Wt., 1 lb. 8 oz.

No. **1050** Fender Spoon....each **$2.00**

FAIRMOUNT FORGED FENDER FLANGE TOOL

For straightening fender flanges. Ebony finished and polished.

No. **1077,** 1½ x 16 in., wgt., 2 lbs.....each **$1.50**
No. **1078,** 1¾ x 16 in., wgt. 2 lbs. 13 oz....each **2.00**

FAIRMOUNT DROP FORGED FENDER PLIERS

Ebony finish. For resetting wire bead in rim.

No. **1053** Fender Pliers, 11½ in., 22 oz.....each **$1.50**

FAIRMOUNT DROP FORGED FENDER PLIERS

For clamping fender flange when welding.

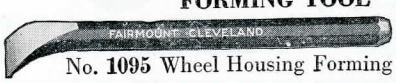
No. **1073** Fender Pliers, 11 in. 1 lb.....each **$1.50**

FAIRMOUNT FORGED DOOR PANEL REMOVER

Ebony finish. ⅜ x 8 in. Wgt., 5 oz.

No. **1110** Door Panel Remover.....each **$0.75**

FAIRMOUNT FORGED WHEEL HOUSING FORMING TOOL



¾ inch. Oct. 11 inches long. 1 lb. 6 oz.

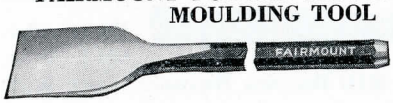
No. **1095** Wheel Housing Forming Tool, ea. **$1.25**

No. 1100 FAIRMOUNT FORGED GLASS REMOVING TOOL

Ebony finish. ⅝ x 15¾ in. long. Weight, 1⅛ lbs.

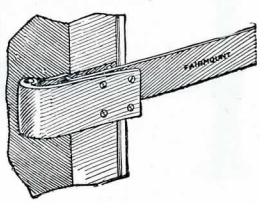
No. **1100** Glass Removing Tool.....each **$1.00**

FAIRMOUNT FORGED RUNNING BOARD MOULDING TOOL



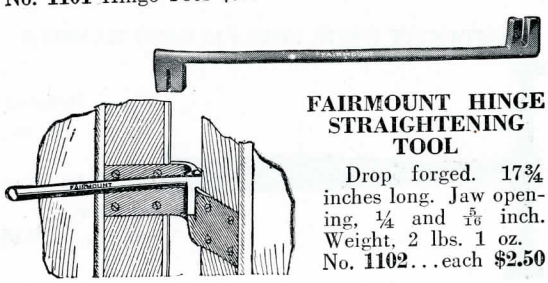
Ebony, Polished. No. 403 each **$1.50**

FAIRMOUNT FORGED HINGE STRAIGHTENING TOOL



Closing door with tool inserted in hinge applies pressure which straightens the hinge. 1½ x 9¾ inches. Weight, 12 oz.

No. **1101** Hinge Tool **$.60**



FAIRMOUNT HINGE STRAIGHTENING TOOL

Drop forged. 17¾ inches long. Jaw opening, ¼ and 5/16 inch. Weight, 2 lbs. 1 oz.

No. **1102**...each **$2.50**

FAIRMOUNT TRIPLE A FLAT COLD CHISELS

No.	Diam. Oct. In.	Lgth. In.	Each (Net)	No.	Diam. Oct. In	Lgth. In.	Each (Net)
1	1/4	5	$0.25	24	1/2	12	$0.70
2	5/16	5	.35	25	5/8	10	.80
3	3/8	5	.40	26	5/8	12	.90
4	7/16	6	.45	27	5/8	16	1.15
5	1/2	6	.50	28	3/4	10	1.00
6	5/8	6 1/2	.65	29	3/4	12	1.20
7	3/4	7 1/2	.80	30	3/4	16	1.40
8	7/8	8	1.00	31	3/4	18	1.60
9	1	8	1.25	32	7/8	12	1.50
23	3/8	10	.50	33	1	12	1.85

FAIRMOUNT TRIPLE A RIVET CHISEL

7/16 inch tip.
11 inches long.
1 lb. 9 oz.

No. 34 Rivet Chisel.....each $1.25

FAIRMOUNT TRIPLE A CAPE CHISELS

No.	Diam. Oct. In.	Lgth. In.	Width Cut In.	Each (Net)	No.	Diam. Oct. In.	Lgth. In.	Width Cut In.	Each (Net)
43	3/8	5 1/2	1/4	$.45	46	3/4	8	1/2	$.90
44	1/2	6 1/2	5/16	.55	47	7/8	8 1/2	5/8	1.15
45	5/8	7 1/2	3/8	.65	48	1	9	3/4	1.50

FAIRMOUNT TRIPLE A HALF ROUND CHISELS

No.	Diam. Oct. Inches	Length Inches	Width Cut Inches	Each (Net)
53	3/8	5 1/2	1/4	$0.45
54	1/2	6 1/2	5/16	.55
55	5/8	7 1/2	3/8	.65
56	3/4	8	1/2	.90

FAIRMOUNT TRIPLE A DIAMOND POINT CHISELS

No.	Diam. Oct. Inches	Length Inches	Width Cut Inches	Each (Net)
60	3/8	5 1/2	1/4	$.45
61	1/2	6 1/2	5/16	.55
62	5/8	7 1/2	3/8	.65
63	3/4	8	1/2	.90

FAIRMOUNT TRIPLE A SOLID PUNCHES

No.	Diam. Oct. In.	Lgth. In.	Size Pt. In.	Each Net	No.	Diam. Oct. In.	Lgth. In.	Size Pt. In.	Each Net
190	5/16	5	3/32	$.30	196	5/8	6 1/2	7/32	$.60
191	3/8	5	4/32	.35	197	5/8	12	9/32	.90
192	7/16	5 1/2	5/32	.40	198	3/4	9	8/32	.95
193	1/2	6	5/32	.45	199	3/4	12	9/32	1.15
194	1/2	6	6/32	.45	200	7/8	9	9/32	1.15
195	1/2	10	7/32	.55	.....	....	....	.....	.....

FAIRMOUNT TRIPLE A LONG TAPER PUNCHES

No.	Diam. Oct. In.	Lgth. In.	Size Pt. In.	Each Net	No.	Diam. Oct. In.	Lgth. In.	Size Pt. In.	Each Net
205	3/8	8	4/32	$.55	208	5/8	9	5/32	$.80
206	1/2	9	5/32	.65	209	5/8	12	6/32	.90
207	1/2	13	7/32	.80	210	5/8	15	6/32	1.10

FAIRMOUNT TRIPLE A PIN PUNCHES

No.	Diam. Oct. In.	Lgth. In.	Size Pt. In.	Each (Net)	No.	Diam. Oct. In.	Lgth. In.	Size Pt. In.	Each (Net)
245	3/8	5	4/32	$.40	252	1/2	6	8/32	$.50
246	3/8	5	5/32	.40	253	5/8	6 1/2	6/32	.60
247	3/8	5	6/32	.40	254	5/8	6 1/2	7/32	.60
248	3/8	5	7/32	.40	255	5/8	9	6/32	.80
249	1/2	6	5/32	.50	256	5/8	9	8/32	.80
250	1/2	6	6/32	.50	257	5/8	9	10/32	.80
251	1/2	6	7/32	.50	258	5/8	9	12/32	.80

FAIRMOUNT TRIPLE A CENTER PUNCHES

No.	Diam. Oct. In.	Lgth. In.	Each (Net,	No.	Diam. Oct. In.	Lgth. In.	Each (Net)
262	5/16	5	$.30	265	1/2	6	$.45
263	3/8	5	.35	266	5/8	6	.60
264	7/16	5 1/2	.40	...	..	..	...

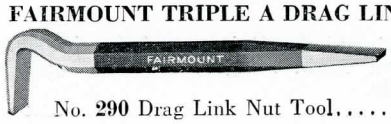
FAIRMOUNT TRIPLE A PRICK PUNCHES

No.	Diam. Oct. Inches	Length Inches	Each (Net)
275	5/16	5	$.30
276	3/8	5	.35
277	1/2	6	.45
278	5/8	6	.60

FAIRMOUNT TRIPLE A PRY OR PINCH BARS

No.	Diam. Oct. Inches	Length Inches	Each (Net)
285	7/16	12	$0.75
286	1/2	15	1.25
287	5/8	18	1.60

FAIRMOUNT TRIPLE A DRAG LINK NUT TOOL



Oct. 5/8 in.
Length 8 inches.
Point 3/4 in.

No. 290 Drag Link Nut Tool.....each $1.00

MAYHEW KNURLED PUNCHES AND CHISELS

MAYHEW REGULAR TAPER CHISELS

No.	30	31	32	33	34	35	36	37
Edge	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1
Diam.	1/4	5/16	3/8	1/2	5/8	7/8	3/4	7/8
Length	4 3/4	5 1/2	5 1/2	6	6	6 1/2	8	8
Wt., Doz.	1	1 1/2	1 3/4	3 1/2	5	5 3/4	12	14
List Each	$ .25	$ .30	$ .35	$ .40	$ .50	$ .60	$ .90	$1.10

MAYHEW CAPE CHISELS

No.	128	129	130	131	132	133
Cutting Edge	1/8	3/16	1/4	5/16	3/8	1/2
Diam. of steel	5/16	3/8	1/2	1/2	5/8	5/8
Length	5 1/4	6	6 1/4	6 1/4	7	7
Weight, doz.	1 1/4	2	3 1/4	3 3/4	6	6 1/4
List Each	$ .40	$ .45	$ .50	$ .60	$ .70	$ .80

MAYHEW ROUND NOSE CHISELS

No.	228	229	230	231	232
Cutting edge	1/8	3/16	1/4	5/16	3/8
Diameter of steel	5/16	3/8	1/2	1/2	5/8
Length	5 1/4	6	6 1/4	6 1/4	7
Weight, dozen	1 1/4	2	3 1/2	3 3/4	6
List Each	$ .40	$ .45	$ .50	$ .60	$ .70

MAYHEW DIAMOND POINT CHISELS

No.	330	331	332	333
Cutting edge	1/4	5/16	3/8	1/2
Diameter of steel	3/8	1/2	5/8	3/4
Length	5 1/4	5 1/2	6	6
Weight, dozen	1 3/4	3 1/2	5 3/4	8 1/2
List Each	$ .50	$ .60	$ .70	$ .80

MAYHEW BUSHING REMOVER PUNCH

No. 600. Made of ½ inch tool steel, hammer forged and electrically tempered. Length over all, 9 inches. Weight, per dozen, 5 pounds.

List Each ..... $ .50

MAYHEW LINING-UP PUNCH

No. 602. Designed for lining up holes in repair and construction work. Length, 9 in. Weight per doz., 4½ pounds.

List Each ..... $ .50

MAYHEW PIN PUNCHES

No. 493. Properly tempered and finely finished. A full 6 inches long, with straight point long enough to drive the most refractory pin clear without "sticking" the punch.

Diam. of Stock	Diam. Points	Wt. per Doz.	List Each
1/2	1/4, 5/16, 3/8	3 5/8	$ .25
13/32	3/32, 1/8, 5/32, 3/16, 7/32	3 5/8	.25

Specify diameter of point when ordering.

MAYHEW EXTRA LONG PIN PUNCH

No. 593. A very popular extra long pin punch which has a variety of uses in the garage, machine shop and factory. Properly tempered and finely finished.

Full 9 inches in length, with extra long straight point, sufficiently long to drive the most refractory pin clear without "sticking" the punch. Made of ½ inch steel, in four sized points only, as follows: 6/32, 8/32, 10/32 and 12/32 inches. Weight per dozen, 4½ pounds.

List Each ..... $ .40

MAYHEW CENTER PUNCHES

No. 491. Points are ground to correct angle for hard use. Length over all, 6 inches. Diameter of points, 3/32 to 3/8 inches.

Diam of Stock	Wt. per Doz. Lbs.	List Each
13/32	2 1/4	$ .25
1/2	3 5/8	.25

MAYHEW SOLID PUNCHES

No. 490. Diameter of points vary by 1/32 of an inch from 3/32 to 3/8 of an inch. Length over all, 6 inches.

Diam. of Stock	Wt. per Doz. Lbs.	List Each
13/32	2 1/4	$ .25
1/2	3 5/8	.25

Specify diameter of point when ordering.

MAYHEW PRICK PUNCHES

No. 492. Six-inch prick punch, embossed handhold. Points are correctly headed.

Diam. of Stock	Wt. per Doz. Lbs.	List Each
13/32	2	$ .25
1/2	3 5/8	.25

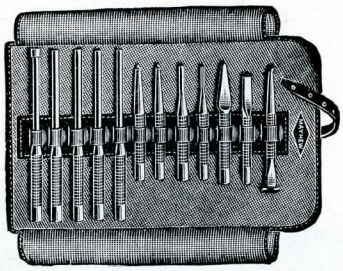
MAYHEW SCRIBER

No. 499. Has a fine sharp point, and is tapered properly so as not to obscure the view of the operator. Length, 6 inches.

Diam. of Stock	Wt. per Doz. Lbs.	List Each
9/32	2 1/4	$ .20

MAYHEW TOOL KITS

NO. 501 GARAGE TOOL KIT

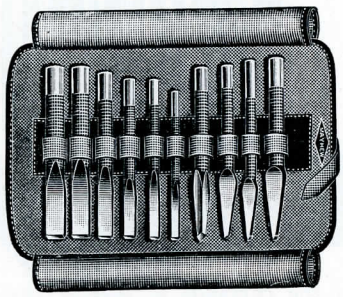


No. 501. Designed to fill the demand of garage repair men.

1 Center Punch	7/32" point	Length, 6"
1 Center Punch	1/16" point	Length, 6"
1 Pin Punch	3/16" point	Length, 6"
1 Sold Punch	3/16" point	Length, 6"
1 Pin Punch	1/4" point	Length, 9"
1 Pin Punch	5/16" point	Length, 9"
1 Pin Punch	3/8" point	Length, 9"
1 Bushing Punch		Length, 9"
1 Cold Chisel	3/8" point	Length, 5 1/2"
1 Cape Chisel	5/16" point	Length, 6 1/4"
1 Cotter Pin Puller		Length, 6"
1 Lining-Up Punch		Length, 9"

Complete, List Price, Each $5.15

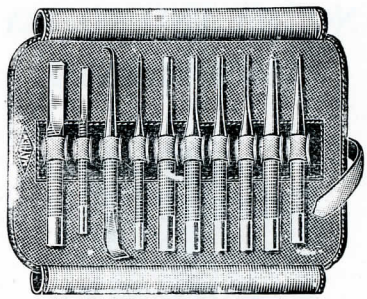
NO. 502 CHISEL KIT



No. 502. Contains ten chisels of the following sizes: one each, 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4" Cold Chisels; one each: 3/16" and 1/4" Cape Chisels; one only 3/16" Round Nose Chisel; one only 5/16" Diamond Point Chisel.

List Price, Each $5.00

NO. 500 AUTOMOBILE KIT



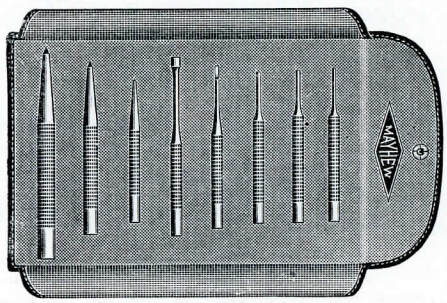
No. 500. Contains ten tools, all of which have embossed hand hold. Rolls up compactly, occupying little space. Contains the following tools:

1 Solid Punch	13/32" body	Length, 6"
1 Center Punch	1/2" body	Length, 6"
1 Prick Punch	13/32" body	Length, 6"
2 Pin Punches	1/2" body	Length, 6"
2 Pin Punches	13/32" body	Length, 6"

1 Scriber, 1 Cotter Pin Puller and Carbon Scraper, 1 Cold Chisel, 1/2".

Complete, List Price, Each $3.25

NO. 503 MAGNETO TOOL KIT



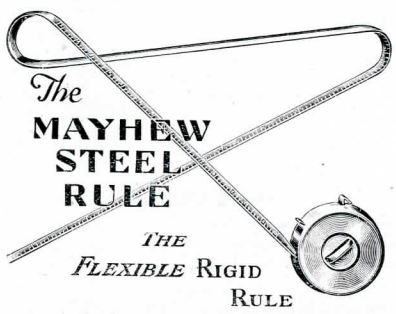
For work on small intricate and delicate parts of magnetos, and machinery of all description. Contains one each of the following:

No. 490—Miniature Solid Punch, 3/32" point.
No. 436—Miniature Center Punch, 1/4" and 3/16" body.
No. 475—Miniature Pin Punch, 2/32", 5/64" and 3/32" points.
No. 600—Miniature Bushing Punch.
N.o 510—Miniature Steel Screw Driver.

Complete, List Price, Each $1.50

Eight fine tools of careful and attractive workmanship for Garage, Machine Shop, Jewelry Repairs, and all connoisseurs of fine tools.

THE NEW MAYHEW STEEL RULE



This marked improvement in convenient, easily operated, one-man, measuring devices combines the flexibility of a steel tape-line with the rigidity of a yardstick.

It measures ordinary straight linear work or curves and circumferences with equal ease. It is an invaluable necessity to contractors, mechanics, draughtsmen, engineers and others and has hundreds of everyday uses in the home.

The new Hayhew Steel Rule is compactly contained in a rust-proof, closed nickel plated case but little larger than a pocket watch and has no awkward bulk or protruding projections to tear pocket linings. The rule strip is 72 inches long and is conveniently graduated in 16ths. At the user's will the rule may be extended manually (like an ordinary steel tape) or automatically ejected.

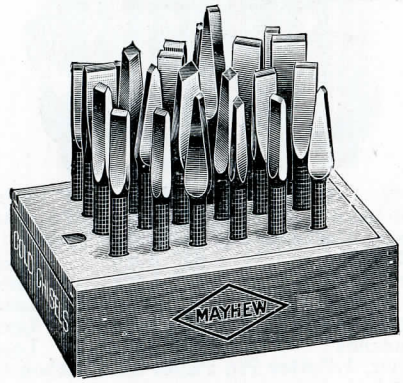
Model A-72 Rule, each $2.50

Packed in an attractive individual box with full instructions. Net weight approximately 5 1/2 oz.

Discount, 3 or more 33 1/3%
Less quantity 25%

MAYHEW ASSORTMENTS

NO. 30A AND NO. 38A ASSORTMENTS



No. 30A. Contains two dozen chisels, patent embossed hand hold. Packed in dealer's display case, as follows:

Regular Taper		Cape	
Size inches	Quantity	Size inches	Quantity
1/4	2	1/8	1
5/16	3	3/16	2
3/8	3	1/4	2
1/2	4	5/16	1
5/8	3	**Diamond Point**	
3/4	1	1/4	1
		5/16	1

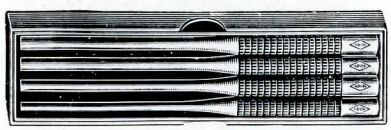
List Price No. 30A, Complete **$10.20**

No. 38A. Contains two dozen all regular taper chisels as follows:

1/4"	3 only	1/2"	6 only
5/16"	4 only	5/8"	5 only
3/8"	5 only	3/4"	1 only

No. 38A. List Price, Complete **$9.20**

EXTRA LONG EMBOSSED PIN PUNCH SET

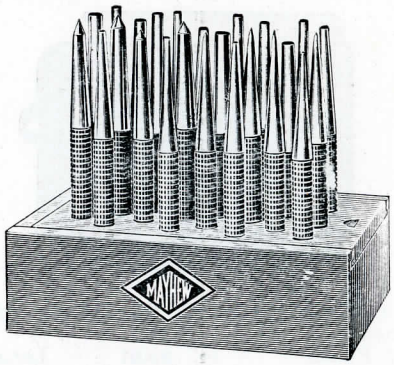


No. 596. Made of 1/2" Special Steel, 9" long, four sizes of points: 3/16", 1/4", 5/16" and 3/8".
List, Per Set (Four Punches) **$1.60**

EMBOSSED PIN PUNCH SET

No. 494. Full 6" long, straight point, sizes: 3/32", 1/8", 3/16" and 1/4".
List, Per Set (Four Punches) **$1.10**

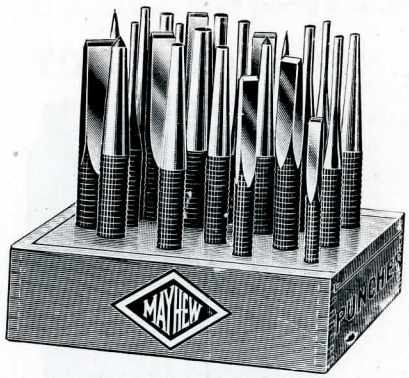
NO. 490A PUNCH ASSORTMENT



No. 490A. Contains two dozen embossed hand-forged, electric-tempered punches. It consists of 8 solid, 4 center, 2 prick and 10 pin punches of 1/2" and 13/32" bodies and assorted lengths.

Packed in wooden box which also makes a counter display stand. Weight, 5 1/2 pounds per case.
No. 490A. List Price, Complete **$6.00**

NO. 339A PUNCH AND CHISEL ASSORTMENT



To meet the demands of certain trade, we offer a slight departure from our regular Assortments, Our No. 339A Combination Assortment illustrated contains both Chisels and Punches as follows:

Punches

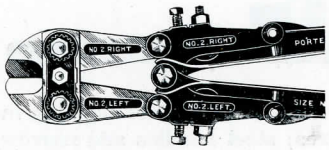
No. 490 Solid	4/32"	1	only
	5/32"	1	only
	6/32"	2	only
	8/32"	1	only
No. 491 Center	7/32"	1	only
	10/32"	1	only
No. 492 Prick	13/32"	1	only
	1/2"	1	only
No. 493 Pin	4/32"	2	only
	5/32"	1	only
	6/32"	3	only
	8/32"	2	only
		17	

Cold Chisels

No. 30	1/4"	1	only
No. 31	5/16"	1	only
No. 32	3/8"	2	only
No. 33	1/2"	2	only
No. 34	5/8"	1	only
		7	

List Price, No. 339A—Punch and Chisel Assortment **$7.00**

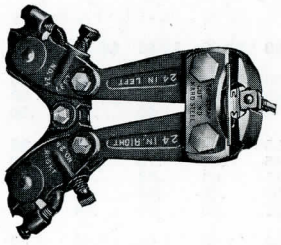
PORTER'S BOLT CLIPPERS



Porter's Bolt Clippers include all the Standard types known as OK, New Easy and Allen Randall. These tools all have adjusting devices to compensate for wear. In these lines you will find a size for every purpose. Supplied with either clipper cut or center cut jaws. See description above. Specify which type desired.

	No. 10-OK	No. 14-OK	No. 0-NE	No. 1-NE	No. 2-NE	No. 3-NE	No. 4-AR
List Clipper Cut	$2.75	$3.00	$4.00	$5.00	$7.00	$9.00	$12.00
List Center Cut	2.75	3.00	4.00	5.00	7.00	9.00	14.00
Approx. Length of Tool	10″	14″	18″	24″	30″	36″	42″
Capacity—annealed bolts in thread	3-16″	¼″	5-16″	⅜″	½″	⅝″	¾″

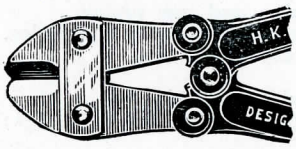
PORTER'S NUT SPLITTERS



Porter's Nut Splitters save hours of time in all sorts of repair and dismantling work where nuts are rusted or peened on and cannot be turned with a wrench. Split the nut in half so that it falls off and if the tool is properly used, the bolt will not be damaged. Made in two styles — "End," with capacity up to a nut of ⅜″ bolt and "Side," with capacity up to ¾″ bolt. Easily adjusted for 1/16″ and ⅛″ smaller sizes.

	No. 14-SS	No. 0-SS	No. 1-SS	No. 2-SS	No. 3-SS	No 4-SS	No. 14-N	No. 24-N
List	$4.25	$5.25	$6.25	$8.50	$10.50	$15.50	$4.25	$6.50
Approx. Length of Tool	14″	18″	24″	30″	36″	42″	14″	24″
Capacity—to split nut of bolt of dia.	¼″	5-16″	⅜″	½″	36″	¾″	¼″	⅜″

PORTER'S "HYPOWA" END AND ANGULAR BOLT CLIPPERS



The "Hypowa" End cutting jaws are at right angles to the handles and they cut very close up. This type of jaw gives some additional cutting power. A popular tool when close trimming is desired and when bolt or rod extends from a large flat area where a side cutting tool cannot easily be operated. The "Hypowa" Angular jaws are at a 30 degree angle to the handles so that when the jaw edges are in proper position the handles are in a convenient position. Especially adapted for cutting on flat surfaces such as walls, floors, ceilings, inside of tanks, under auto fenders, etc.

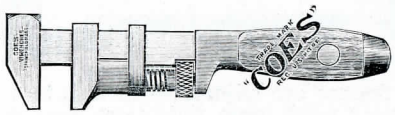
	End		Angular	
	No. 14-E	No. 24-E	No. 14-A	No. 24-A
List	$3.75	$6.00	$3.75	$6.00
Approx. Length of Tool	14″	24″	14″	24″
Capacity—annealed bolts	¼″	⅜″	¼″	⅜″

PORTER'S LOW PRICE CLIPPERS

Bolt Clipper — "1855"
With Clipper Cut Jaws

List Clippers, Each $1.75
Length of Tool ..... 12″
To cut annealed bolts ..... 3/32″

COES MACHINIST'S KNIFE HANDLE WRENCHES



This is a wrench which is a strong, heavy duty tool. It is fitted with an easy-acting solid steel screw. Each wrench is wrapped in anti-rust paper. It has an indestructible handle, of wood, steel reinforced, shaped to the hand. The head and the bar are drop-forged in one piece from selected steel and the extra heavy jaws are thoroughly case-hardened.

The manufacturer guarantees each wrench against defective material or workmanship.

A strong, durable tool, for every motorist's box.

Sizes and Prices

No. and Size, Inches	Jaws Open, Inches	Quantity in Case	Net Weight Per Case	List Price Each
6	1	72	55	**$1.25**
8	1½	72	102	**1.50**
10	1⅞	72	171	**1.85**
12	2¼	72	225	**2.35**
15	2 13/16	38	224	**3.20**
18	3	24	171	**4.00**
21	3 15/16	12	114	**4.85**

CHAMPION UTILITY CLIPPER

No. 99

Cut showing tool cutting flush to a flat surface.

Tool has capacity of 3/16 inch bolts and is very useful in cutting small rivets, etc.

Tool has no equal for cutting bolts to remove a fender.

With this tool copper cable can be cut, leaving a straight end.

Will be a great help in any shop.

List Price, Each $4.00

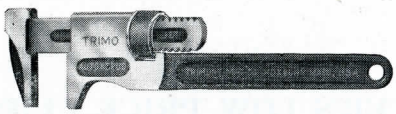
TRIMO PIPE WRENCHES

Length Open.....Inches	6	8	10	12	14	18	24	36
Takes Pipe .....Inches	⅛-½	⅛-¾	⅛-1	⅛-1¼	¼-1½	¼-2	½-2½	½-3½
Price, Complete with Steel Handles ...Each	$1.90	$2.20	$2.85	$3.35	$3.85	$5.50	$8.50	$15.00
Price, Complete with Wood Handles ..Each	2.00	2.30	3.15	3.60	4.25	....	....	....
Movable Jaws ....Each	.65	.70	1.10	1.25	1.50	2.15	3.50	5.70
Nuts .....Each	.15	.15	.20	.25	.30	.35	.55	1.10
Insert Jaws with Pins..Each	.50	.55	.65	.75	.85	.95	1.10	1.50
Frames with Pins..Each	.45	.55	.70	.75	.80	.95	1.75	2.75
Springs with Pins..Each	.03	.03	.03	.03	.03	.04	.04	.04
Extra Frame Pins.Each	.03	.03	.04	.04	.04	.04	.04	.04
Extra Jaw Pins...Each	.03	.03	.04	.04	.04	.04	.04	.05
Extra Steel Handles....Each	1.00	1.15	1.60	1.80	2.20	3.25	5.15	10.50
Extra Wood Handles with Ferrule.....Each	.23	.25	.30	.35	.36	....	....	....
Nut Guards ....per pair	.15	.15	.20	.30	.30	.35	.45	.55

Furnished with steel handles in all sizes; steel handles and narrow jaws for automobiles in 6, 8 and 10-inch; wood handles in 6, 8, 10 and 14-inch sizes.

List Prices Subject to Discount

TRIMO MONKEY WRENCHES



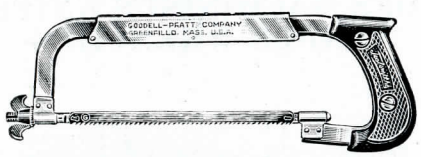
Constructed so that the leverage increases in proportion to the increased size of the nut to which it is applied, as the movable jaw extends forward instead of towards the handle to adjust. Another important feature is that the threads of both the jaw and the nut are rounded; rendering them practically indestructible. This is an all-steel wrench, drop-forged and hardened. The nut guards are a new feature and keep the jaws in adjustment.

The Trimo Auto Monkey Wrench is the same pattern as the regular but is made thinner for close quarter work and in the 12-inch size only.

Size, in.	6	8	10	12	15	18	21
Takes nut in.	15-16	1 5-16	1¾	2⅛	2⅝	3¼	4⅛
List Price, Each ...	$1.25	$ 1.50	$1.85	$2.35	$3.20	$4.00	$4.85

ADJUSTABLE HACK-SAW FRAMES

With Pistol Grip



These frames are adjustable from 8 to 12 inches, but are very much more rigid than most adjustable frames because they are made of ¼ x ¾ inch steel with an extra heavy back.

The black composition handles are molded in a single piece, peculiarly shaped to give a very comfortable grip. The frames are so designed that they balance well and hang nicely.

Depth of throat, 3⅛ inches. Net weight, 1⅞ pounds.

One blade furnished with each frame.

No. 247B. Black finish, Net Price, Each **$2.40**

MASTER HACK SAW FRAME

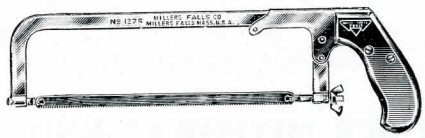
No. 5

Pistol Grip

This is a medium weight frame, adjustable.

Net Price, Each, No. 5 .....**$ .95**

HACK SAW FRAME



No. 1275

This is a new nickel-plated frame of the pistol-grip type. Exceptional value and low priced.

Quickly adjusted for different length of blades. Well balanced and with easy grip.

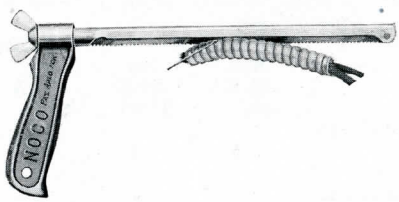
Frame: Nickel-plated.

Handle: Black enameled hardwood.

Capacity: 8"x12"; depth, 2½"; frame, $\frac{3}{16}$x$\frac{11}{16}$; weight each, 1¼ lbs.

Net Price, Each, No. 1275 .....**$ .48**

NOCO BUSHING AND BX CABLE SAW



Will pay for itself on one tough job. Swivel handle.

Regular 8-inch saw blade inserted easily.

Net Price, Each **$1.10**

KLOSE KUT HACK SAW

No. 68

A new tool of unusual design for use where the ordinary hack saw would be very awkward. Reaches places where other saws would be useless.

A time saver and valuable addition to the tool kit of any auto mechanic, electrician, plumber, machinist, etc.

Each frame contains a specially designed wave set blade but will take any 10 x ¾ inch blade.

Net Price, Each .....**$ .55**

Extra Blades, Net Price, Dozen **$1.75**

STAR HACK SAW BLADES

ALL HARD HAND BLADES

For Use on Exceptionally Hard Material

No. 14 Te'th Per Inch	No. 18 Te'th Per Inch	No. 24 Te'th Per Inch	No. 32 Te'th Per Inch	Size (Inhces)	Gauge No.	Weight Per Gross Lbs.	Price Per Gross
	818	824	832	8x7-16x.025	23	3 9-16	$ 8.00
1014	1018	1024	1032	10x½x.025	23	5	10.00
1214	1218	1224	1232	12x½x.025	23	6⅛	12.00

STAR RAIL BLADES

For Cutting High Carbon Rails

Per Gross

12x½x.025 or 23 Ga. 14 T. to inch, **$12.00**

FLEXIBLE BACK BLADES WITH HARDENED TEETH

No. 14 Teeth Per Inch	No. 18 Teeth Per Inch	No. 24 Teeth Per Inch	No. 32 Teeth Per Inch	Size (Inches)	Gauge No.	Weight Per Gross Lbs.	Price Per Gross
	818F	824F	832F	8x7-16x.025	23	3 9-16	$ 8.00
1014F	1018F	1024F	1032F	10x½x.025	23	5	10.00
1214F	1218F	1224F	1232F	12x½x.025	23	6⅛	12.00

HIGH SPEED STEEL HAND BLADES

SIZE	18 Teeth Per Inch	24 Teeth Per Inch	32 Teeth Per Inch	Weight Per Gross	Price Per Gross
10x9-16x.025 or 23 Ga.	1018	1024	1932	6 lb.	$40.32
12x9-16x.025 or 23 Ga.	1218	1224	1232	7 lb.	48.96

HIGH SPEED STEEL HEAVY POWER BLADES

SIZE	14 Teeth Per Inch	10 Teeth Per Inch	6 Teeth Per Inch	4 Teeth Per Inch	Wt. Per Gross	Price Per Gross
12x1 x.049 or 18 Ga.	1219A				24½	$172.80
12x1 x.065 or 16 Ga.		1215	1215C		30	172.80
14x1 x.049 or 18 Ga.	1419A				27⅛	201.60
14x1 x.065 or 16 Ga.		1415	1415C		34	201.60
14x1¼x.065 or 16 Ga.			1445C	1445C	46	252.00
17x1 x.049 or 18 Ga.	1719A				33	244.80
17x1 x.065 or 16 Ga.		1715	1715C		41½	244.80
17x1¼x.065 or 16 Ga.			1745C	1745D	58	306.00
18x1 x.065 or 16 Ga.		1815			44½	259.20
18x1¼x.065 or 16 Ga.			1845C	1845D	62	324.00
21x1½x.065 or 16 Ga.		2125	2125C	2125D	90	453.60
24x1½x.065 or 16 Ga.		2425	2425C		102	518.40

STAR LIGHT POWER MACHINE BLADES

for

Heavy Hand Frame and Light Power Machine Work

For Cutting	Iron Pipe Bronze Copper Wrought Iron	Copper Tubing Thin Metals Light Angle Iron	LIST	PRICE
Size	14 Teeth Per In.	18 Teeth Per In.	Weight Per Gross	Price Per Gross
12x⅜x.032 or 21 Ga.	1284	1288	10 lb.	$17.88
12x¾x.032 or 21 Ga.	1234	1238	12¼ lb.	21.36

HEAVY POWER MACHINE BLADES

Slow Speed and Heavy Feed Insures Best Results on Tool Steel, Rails, Angle Iron, Machinery Steel, Use Cutting Solution Wherever Possible

For Cutting	Large Solid Stock	Iron Mach- inery Steel	Pipe Steel Rails	Steel Tub- ing	Soft Steel	Heavy Angle Iron	Light Angle Iron	Heavy Cast Iron	Bronze Brass Solid Stock	Hard Metal Tool Steel	LIST	PRICE
Size	4 Teeth Per Inch	6 Te'th Per Inch	10 Te'th Per Inch	14 Te'th Per Inch							Weight Per Gross	Price Per Gross
12x ¾x.049 or 18 Ga.			1239	1239A							18 lb.	$28.92
12x1 x.049 or 18 Ga.			1219	1219A							24½lb.	37.92
14x ¾x.049 or 18 Ga.			1439	1439A							21½lb.	32.12
14x1 x.049 or 18 Ga.			1419	1419A							27½lb.	43.56
14x1¼x.065 or 16 Ga.	1445D	1445C	1445								46 lb.	61.32
17x1 x.049 or 18 Ga.				1719A							33 lb.	51.72
17x1¼x.065 or 16 Ga.	1745D	1745C	1745								58 lb.	71.76
18x1¼x.065 or 16 Ga.		1845C	1845								62 lb.	75.48
21x1½x.065 or 16 Ga.	2145D	2125C	2125								90 lb.	104.64
24x1½x.065 or 16 Ga.		2425C	2425								102 lb.	119.04

Order by number as a safeguard against error

SPECIAL FLEXIBLE

THE NEW BLADE

HAND USE ONLY

PRICES

14 Teeth Per Inch	18 Teeth Per Inch	24 Teeth Per Inch	32 Teeth Per Inch	Size (In.)	Gauge No.	Weight Per Gr. Lbs.	Price Per Gross
SF	818SF	824SF	832SF	8x7-16x.025	23	3 9-16	$8.00
1014SF	1018SF	1024SF	1032SF	10x½x.025	23	5	10.00
1214SF	1218SF	1224SF	1232SF	12x½x.025	23	6⅛	12.00

SPECIFY SPECIAL FLEXIBLE

EZY-OUT SCREW EXTRACTORS NO. 192

This tool is expressly designed for the quick and easy removal of broken set and cap-screws, studs, stay-bolts, pipe fittings, etc.

Instead of fussing for hours with files, and punches or drifts, as in the past, it is merely necessary to drill a hole in the broken screw, and insert the proper size Extractor, twisting it as though tapping with a left-hand tap.

The twisting forces the cork-screw-like spirals of the extractor to grip the sides of the drilled hole and then, as additional force is brought to bear on the tap wrench, the screw begins to come.

This operation is accomplished without endangering the threads.

Size No.	Dia. at Small End Inches	Dia. at Large End Inches	Length of Flute Inches	Length Overall Inches	List Price Each
1	.054	.117	1/2	2	$ .55
2	.080	.174	1 3/4	2 3/8	.60
3	1/8	1/4	1	2 11/16	.65
4	3/16	11/32	1 1/4	3	.75
5	1/4	7/16	1 1/2	3 3/8	.85
6	3/8	19/32	1 3/4	3 3/4	1.00
7	1/2	3/4	2	4 1/8	1.35
8	3/4	1 1/64	2 1/8	4 3/8	1.85
9	1	1 9/32	2 1/4	4 5/8	2.65
10	1 1/4	1 5/16	2 1/2	5	4.00
11	1 1/2	1 7/8	3	5 5/8	5.35
12	1 7/8	2 5/16	3 1/2	6 1/4	6.65

WRIGHT STANDARD SCREW HOIST

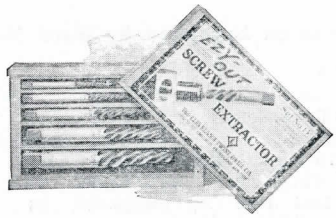
The Wright Standard Screw Hoist is a light, powerful, and durable Hoist, requiring a minimum of head-room, designed and built with the same consideration of detail and quality as are all other Wright Products.

The Standard Screw Hoist is designed on the worm wheel and screw principle, is of few parts, and of extremely simple construction.

With this hoist goes the protection of the usual Wright reliability and our absolute guarantee of satisfaction.

Cap. Tons	Reg. in Ft.	Net in Lbs.	Net Each	Extra Lift Per Ft.
1/2	8	59	$43.00	$2.15
1	8	68	51.60	2.24
1 1/2	8	102	68.80	2.32
2	9	127	86.00	2.41
3	10	170	129.00	2.58

EZY-OUT SCREW EXTRACTOR SETS



No. 15 Set—Designed for tool room use, comprising Extractors No. 1, 2, 3, 4 and 5. Per Set $3.00

No. 15A Set—Known as the "Garage Set" containing Extractors No. 1 to 6 Inclusive. Per Set.....$4.00

No. 16 Set—Known as the "Heavy Shop Set" for railroads, structural workers, steel workers, etc., and contains Extractors No. 6, 7, 8, 9. Per Set $6.65

No. 17 Set—A utility set for all-around use by machine shops, auto repair shops, service stations, etc., containing Nos. 4, 5, and 6 Extractors. Per Set $2.35

No. 20 Set—The complete set contains Extractors No. 1 to 6 Inclusive, with the proper straight shank drill for each extractor. Per Set $5.00

WRIGHT DIFFERENTIAL HOIST

The Wright Differential Hoist is an extremely desirable hoist in the field for which it is intended. It is simple and reliable, and serves its purpose well, where loads are to be lifted infrequently.

Wright Differential Hoists are constructed with extra heavy load-sheaves, malleable iron yokes and heat treated drop forged hooks. The usual super quality Wright special analysis steel load chain is featured, and the usual Wright precision is followed in fashioning the load sheave pockets into which the chain meshes.

While it is a low priced hoist, still, it is not a cheap hoist, for the design and materials entering into its construction are the very best possible; and the user is thoroughly protected by exacting Wright tests and inspections.

Cap. in Tons	Reg. Lift in Ft.	Net Wt. in Lbs.	Net Price Each	Extra Lift per Ft.
1/4	6	22	$ 9.72	$1.68
1/2	7	30	11.34	1.68
1	8	51	15.12	1.75
1 1/2	8 1/2	78	19.44	1.89
2	9	123	24.30	1.96

DISSTON TIRE TOOL

18½ Inches Long

Tire Tools That Were DESIGNED—Not Just MADE

It is surprising how much easier and quicker it is to remove or put on a tire with a good tool.

The Disston Tire Tool is manufactured from the famous Disston-made Steel, especially hardened and tempered for this kind of work. It is an extra strong tool. It will not bend or break under hard use. It is one of the handiest tools in an auto kit.

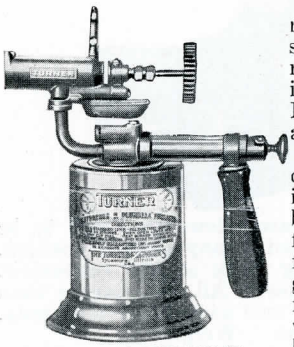
No. 1 Bent Tire Tool. Net Price, Each .....$ .90

No. 2 Straight Tire Tool. Net Price, Each ..... .90

TURNER MASTER LINE BLOTORCHES

No. 42—Capacity 1 Quart

List Price $10.90



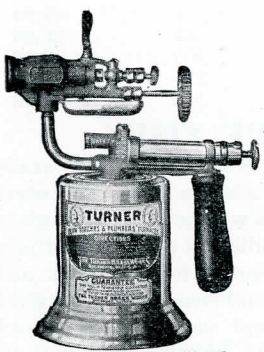
No. 42. KEROSENE / GASOLINE

This low priced single needle Master Line is far superior to ordinary single needle blotorches. All the improvements of the Master Line construction are incorporated.

The burner is of the closed generator type, and is our best single needle burner, which has satisfactorily served the trade for years. It is quick to generate, functions perfectly in wind or coldest weather and produces a blue flame of intense heat on either gasoline or kerosene. Automatic safety valve and air release prevents explosions.

No. 45—Capacity 1 Quart
Kerosene-Gasoline

List Price $13.60



TURNER No. 45. KEROSENE / GASOLINE

The air adjusting tube (like a carburetor) provides correct entrainment of air for various gravity fuel, insuring perfect combustion—resulting in maximum heat.

Prominent baffle in the throat of the extra large burner, assisted by the heater plug, converts lowest grade gasoline or kerosene into a hot, dry gas, super-inducing a greater percentage of oxygen, thus effecting 400 degrees more heat with the minimum consumption of fuel. The automatic safety valve obviates pumping excess or bursting pressure and explosions are impossible. Pistol grip handle allows for any size hand.

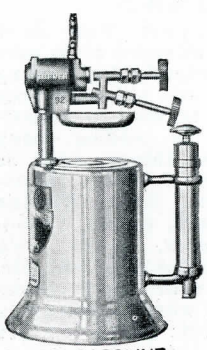
TURNER DOUBLE JET BLOTORCH

No. 92 Blotorch—Capacity 1 Quart

Known the World Over for Light Brazing and Annealing.

List Price $14.15

(Subject to Discount)



No. 92. GASOLINE TURNER

Turner Double Jet burners produce the extreme degree of heat possible from gasoline. Both jets function, giving a flame within a flame, and work can now be accomplished that with ordinary blotorches was impossible. The construction of these burners differs radically from all others, at the same time they are simple and easy to operate.

They are the only hydrocarbon burners that can be satisfactorily used for light brazing, tempering tools and annealing.

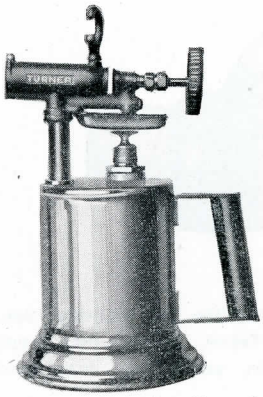
Removable soldering hook.

TURNER NO. 30 BLOTORCH

Pump-in-Tank, the preferred type. Polished Brass Tank.

Capacity 1 Quart

List Price $7.95

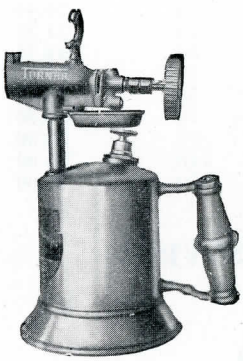


This Blotorch has a bronze burner with long underflow which perfectly generates present - day fuel. It produces a large blue flame of intense heat. Removable soldering hook.

Heavy gauge polished brass tank, corrugated funnel shaped bottom and patented filler plug. Removable soldering hook. Especially suitable for tinkerers, occasional users, home owners, etc. This construction meets the demand of the trade who do not recognize the advantages of the Master Line.

No. 206—Capacity 1 Quart

List Price $10.90



No 206 GASOLINE TURNER

This blotorch delivers a powerful and very hot flame and will give maximum efficiency in wind or coldest weather. The burner is of the Turner special mixture, closed generator type and larger than usually furnished on this price blotorch. It is equal to any single needle blotorch regardless of price. The long underflow insures quick generation and perfectly gasifies present-day abating quality of fuel.

No. 106—Same as above in 1 Pint Capacity, List Price $10.20. (Subject to Discount).

VULCAN GARAGE ANVILS

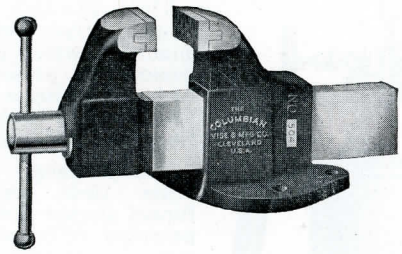
Quality Plus Workmanship
Facing of One Solid Piece Tool Steel

This special tool steel facing is ground, tempered and polished to a high degree, then made an integral part of the body of the anvil by a patented welding process. The horn is covered with—and its extremity made entirely of—tough, untempered steel. In the body nothing is used but the best quality gray cast iron. This gives greater strength and longer life.

Size, Lbs.	50	60	70	80	100
Net Price, Each....	**$6.00**	**$7.00**	**$7.50**	**$8.00**	**$10.00**

COLUMBIAN VISES

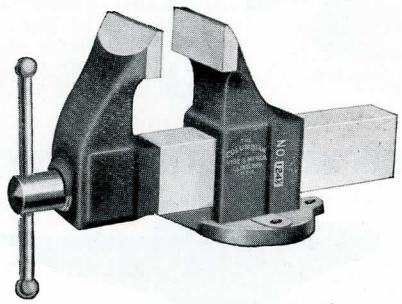
STATIONARY BASE MACHINISTS' VISES



The most popular type of vise for general use. Replaceable tool-steel jaw faces, pinned on, cover entire jaw gripping surface, accurately machined and heat treated.

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds Approx.	List Price
502	2	3	9	$ 8.25
502½	2½	3½	13	9.00
503	3	4½	20	10.00
503½	3½	5	27	11.25
504	4	6	34	12.75
504½	4½	7	44	15.50
505	5	8	53	20.00
505½	5½	9	74	30.00
506	6	10	90	39.00
507	7	12	118	55.00
508	8	13	150	75.00

BODYMAKERS' VISES



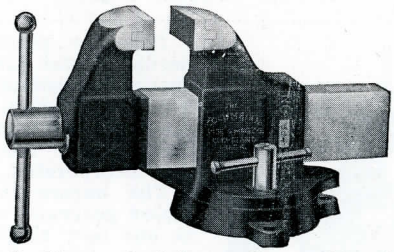
Designed with high, slender, tapering jaws especially for automobile body and wood work. The 4½" smooth jaw faces are extra deep to give large gripping surface. Made with stationary or swivel base. Also made in adjustable jaw style with stationary or swivel base.

Stationary Base

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds Approx.	List Price
*124½	4½	9	50	$17.50
*324½	4½	9	54	25.00
Swivel Base				
*224½	4½	9	56	$22.50
*424½	4½	9	60	30.00

*With adjustable jaw.

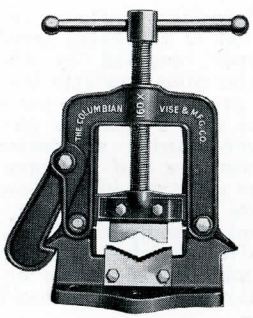
SWIVEL BASE MACHINISTS' VISES



This effective swivel base allows this vise to be swung quickly and clamped in any desired position. The advantage of holding work at any convenient angle is appreciated by users. All sizes larger than 4½ inches are fitted with two swivel clamping nuts.

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds Approx.	List Price
602	2	3	10	$10.50
602½	2½	3½	15	12.00
603	3	4½	25	13.00
603½	3½	5	32	15.00
604	4	6	39	17.00
604½	4½	7	55	20.00
605	5	8	61	30.00
605½	5½	9	84	38.00
606	6	10	100	52.00
607	7	12	135	70.00
608	8	13	160	98.00

HINGED PIPE VISES

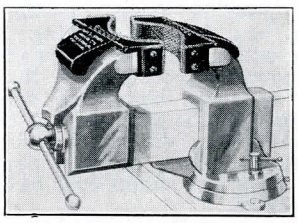


Made of high grade malleable iron. Tool-steel jaws with accurately milled teeth carefully treated for hardness and toughness. Cold - rolled steel screw, screw head and handle. Ball ends of handle are forged on and cannot come off. Flat base with three bolt holes; may be mounted on any plane surface. Self-locking hook.

Standard

Vise No.	Holds Pipe Inches	Weight Lbs. Approx.	List Price
* 16X	⅛ to 1½	5½	$ 3.60
*160X	⅛ to 2	8	4.25
161X	⅛ to 2½	11	5.00
162X	⅛ to 3½	17	7.50
163X	⅛ to 4½	26	11.00

PISTON VISE JAWS

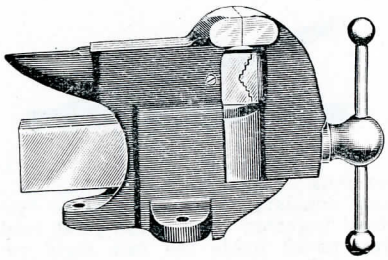


Gripwel Vise Jaws are intended to be used principally for holding Pistons, although they can be used to advantage in holding many other things, such as Horns, Coils, Armatures, Small Electric Motors, Clocks, Speedometers, Hub and Radiator Caps, etc., etc.

Gripwel Vise Jaws are lined with heavy canvas fabric that can be replaced when worn by removing the screws on each end. This fabric should last for years as there is not much wear out to it.

Net Price, Per Set $1.50

ROCK ISLAND AUTO VISE

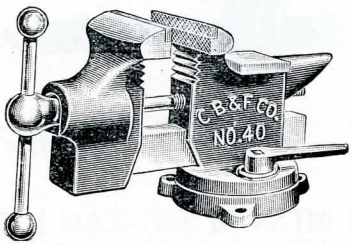


With Powerful Jaws and Anvil Body

No.	Type	Width	Opens	Pipe Size	List Price Each
231	Stationary	3	4	⅛ to 1½	**$10.00**
232	Stationary	4	4½	⅛ to 2	**15.00**
240	Swivel	3	4	⅛ to 1½	**13.00**
241	Swivel	4	4½	⅛ to 2	**18.00**

MASTER SWIVEL VISES

With Removable Jaws



Master Machinists' Vises are well made, having a cold rolled steel draw bar; jaws are steel, removable, knurled and ground to fit. Handle and screw are cold rolled steel. The thread on the screw is square or acme thread of machine cut.

Top of Jaws and Anvil Face, as well as all steel parts, are highly polished.

The Body and Base are painted red—being so attractively finished makes them good sellers, and are real values for light work in machine shops, pattern and model shops, garages and for the home workshop.

The swivel the same as all higher priced vises costing five times as much as these vises. They can be used as stationary vises, if so desired. Are equipped with pipe jaws holding 1¼" pipe.

Packed in strong individual fibre cartons.

Specifications

No.		Width of Jaw In.	Jaw Opens In.	Wgt. Lbs.	Net Price
30	Radio and Home Vise	3	3	13	**$2.00**
40	Home and Gar. Vise	4	4	20	**3.65**
50	Garage & Shop Vise	5	5	33	**6.00**

MOUNTED CARBORUNDUM STONES

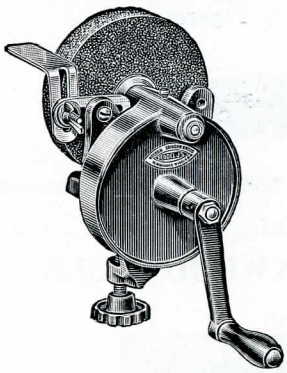
Stones are combination, one side coarse, one side fine.

These boxes are made of highly finished quartered oak and are furnished in two sizes.

Net Per Box, With Stone

No. 108, for 8x2x1-inch stone **$1.70**
No. 109, for 6x2x1-inch stone **1.30**

BLUE KNIGHT TOOL GRINDERS



Working parts are enclosed in dust and oil tight gear case where they are in a continuous oil bath, insuring easy operation and minimum wear and tear.

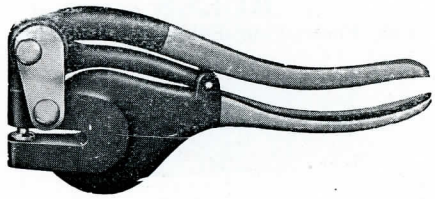
A good serviceable grinder for all-around service in home, shop or outside work.

Accurately made in every respect and nicely finished.

No. A. 4x1x1-inch Wheel, List Price, Each..... **$3.50**
No. B. 5x1x1-inch Wheel, List Price, Each..... **4.75**
No. C. 6x1x1-inch Wheel, List Price, Each..... **6.50**

WHITNEY NO. 5 JR. PUNCH

Capacity ¼-Inch Through 16 Gauge



Weight ..... 2½ lbs.
Punch in center of ..... 3 inches
Length over all ..... 8¼ inches
Height of gap ..... ¼ inch

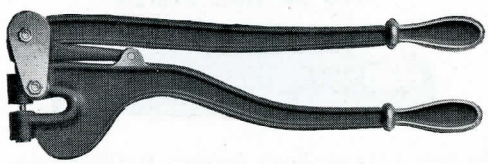
Tool shipped complete with three sets of punches and dies, ⅛", 3/16" and ¼", or any stock size specified.

We also furnish any size punch and die from 1/16" to 17/64" by 1/64".

List Price **$10.00**

WHITNEY NO. 7 ROLLER BEARING PUNCH

Capacity ¼ Inch Through ⅛ Inch



Weight ..... 6½ lbs.
Punch in center of ..... 3½ inches
Length over all ..... 18 inches
Height of gap ..... ½ inch

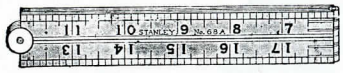
Tool shipped complete with three sets of punches and dies 5/32", 7/32", 9/32", or any other stock size specified.

We also furnish any size punch and die from ⅛" to 7/16" by 1/32".

List Price **$17.50**
Base, for bench purposes **2.00**

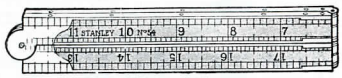
STANLEY BOXWOOD RULE

Two-Foot—Four Fold—1 Inch Wide—No. 68-A
Extra Heavy Figures



No. 68A. Round Joint, Middle Plates. Graduated 8ths and 16ths Inches.
No. 68A. List Price, Each .....$ .25

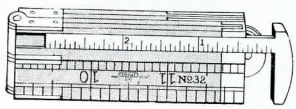
STANLEY BOXWOOD RULE



Two-Foot—Four-Fold—1 Inch Wide—No. 54
Arch Joint, Full Bound, Drafting Scales Graduated 8ths, 10ths, 12ths and 16ths inches.
No. 54. List Price, Each $1.10

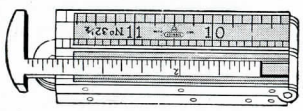
STANLEY BOXWOOD CALIPER RULES

One Foot—Four-Fold—1 Inch Wide



Arch Joint, Edge Plates. Graduated 8ths, 10ths, 12ths and 16ths Inches.
No. 32. List Price, Each .....$ .90

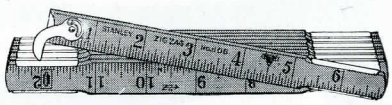
1 Inch Wide



Arch Joint, Full Bound. Graduated 8ths, 10ths, 12ths and 16ths Inches.
No. 32½. List Price, Each $1.30

STANLEY "ZIG ZAG" RULES

With the Hook Feature

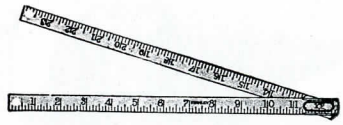


The new Stanley hook feature facilitates the use of a Zig Zag Rule when employed in measuring beyond one's normal reach. Joints, tips and strike plates are brass plated and the finish is exceptionally fine, being of white or yellow enamel as specified.

Six-Inch Folds, ⅝ Inch Wide
Yellow Enamel Finish—Concelaed Joints, Regular Figuring

No.		List Each
H04,	4 ft.	$ .50
H05,	5 ft.	.60
H06,	6 ft.	.75
506F,	6 ft, White	.75

SPRING BRASS RULE



No.		List Each
17	2 feet long	$1.00

This Rule consists of two legs made from spring brass, joined together by a brass joint containing a stiff spring which holds the rule rigid when open. Particularly adapted for measuring hot metal, as it can be cooled by plunging in water without rusting. They have a rivet joint and are ⅝ of an inch wide—Graduated in 16ths of inches.

WOOD MORTISE AND MARKING GAUGES

No. 77

No. 77. Rosewood, with Slide, List Price, Each....$1.60
No. 77 Gauge has a metal slide that works in Wood Bar.

ALUMINUM ZIG-ZAG RULE

Straight Edge—No. 426

A straight line can be drawn along the entire edge of this rule as readily as with a straight edge.
No. 426. Length, 6 ft. Six-Inch Folds, ½ inch wide. List Price, Each $2.05
Graduated in 1/16ths Inches, both sides.

CARPENTERS' LEVELS

Aluminum

Adjustable—Aluminum Cases Ftted with 6 Proved Glasses—2 Double Plumbs and 1 Double Level

No.		List Each
232	24 inches long	$5.85
232	28 inches long	6.40

WOOD LEVELS

Four Proved Glasses (Two Single Plumbs, One Double Level) "Handy Grip"

No.	Length (Inches)	List Price, Each
257	24	$2.25
	28	2.35

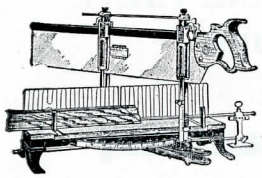
SQUARE IRON LEVELS

Proved Glasses — Nickel Plated

Popular Machinists Levels. The Proved Glass is set solid in plaster. An opening in the side of the Level makes the Glass easy to read.

No.	Length (Inches)	List Price, Each
39½	6	**$1.05**

MITRE BOXES



The Back, Frame and Graduated Quadrant are cast in one piece. The entire box is strongly braced and absolutely rigid. The Legs are made of malleable iron which makes them practically unbreakable.

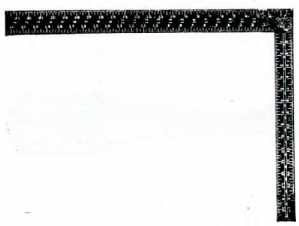
A first quality back saw is furnished with each box.

No.	Back Saw Inches	Capacity Right Angle Inches	Capacity Mitre (45°) Inches	Capacity at 30° without Stop Guide Inches	List Price Each
244	24x4	8¼	5½	3½	**$23.40**

SQUARES

CARPENTERS' STEEL SQUARES

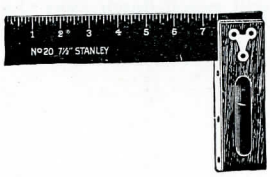
Southington



No.	Finish	Body Inches	Tongue Inches	Markings	List Price
14	Gun Metal	24x2	16x1½	⅛-1/16-¼	**$3.60**

TRY SQUARES

No. 20 Try Square—Rosewood Handle

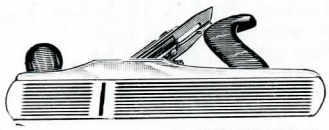


Size, Inches	4½	6	9	12
List Price, Each	**$ .50**	**$ .70**	**$ .95**	**$1.25**

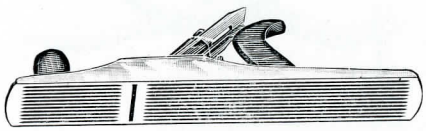
PLANES

Corrugated Bottoms—Drop Forged

No.	Pattern	Length, Inches	Width of cutter	Wgt., each, lbs.	List Each
703 C	Smooth	8	1¾	3⅛	**$4.45**
704 C	Smooth	9	2	3¾	**4.85**
704½C	Smooth	10	2⅜	4¾	**5.60**

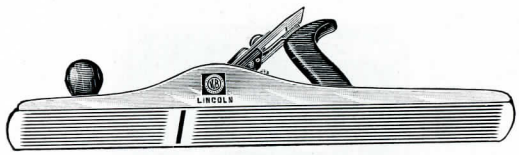


No.	Pattern	Length, Inches	Width of cutter	Wgt., each, lbs.	List Each
705C	Jack	14	2	4¾	**$5.60**



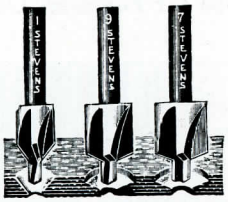
No.	Pattern	Length, Inches	Width of cutter	Wgt., each, lbs.	List Each
706C	Fore	18	2⅜	7¾	**$7.10**

CAST IRON PLANE



No.	Pattern	Length, Inches	Width of cutter	Wgt., each, lbs.	List Each
807C	Jointer	22	2⅜	8⅛	**$8.20**
808C	Jointer	24	2⅝	9¾	**9.75**

BRAKE LINING COUNTERSINK AND DRILL



Shank ¼" diam. x 1" long permitting use in many commercial break-lining machines.

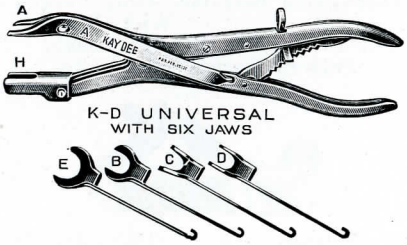
T-443—Set of three (T-440, T-441, T-442-A) Net Price **$1.00**

T-440—Diameter $\frac{9}{16}$" for flat-head rivets Nos. 7 and 8. Net Price ..... **.35**

T-441—Diameter ½" for flat-head rivets No. 9. Net Price ..... **.35**

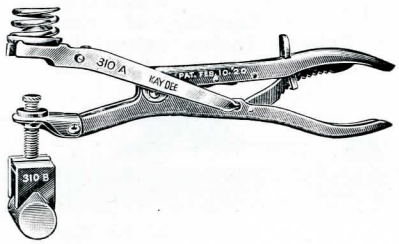
T-442-A—Diameter $\frac{11}{32}$" for flat-head rivets Nos. 10 and 11. Net Price ..... **.35**

K-D VALVE LIFTERS

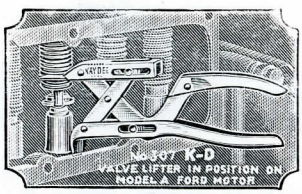


No. 300 Valve Lifter will service many L Head motors. Chart showing proper Jaw combinations printed on carton. Tool is 11 inches long. Made of pressed steel with automatic lock.
No. 300 Lifter with 6 Jaws, List **$2.50**

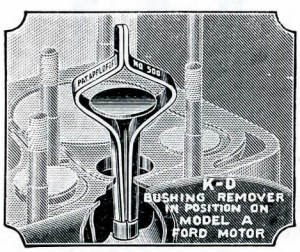
(Approved by Studebaker Corporation)



No. 312 Complete with 7 Jaws to service President, Commander, Dictator and Erskine, List **$4.25**
No. 309 for Standard Light 6 only, List **2.50**
No. 314 Lifter for Pierce-Arrow 8, List **2.50**



No. 307. This new tool will remove and replace Ford valve springs without removing manifold or carburetor. Length 8 inches.
No. 307 for Model "A" Fords, List **$1.00**
No. 303 for Model "T" Fords, List **1.00**
No. 315 "C" Type for Fordsons, List **3.75**



No. 500 Bushing Remover is a necessary tool. A tap with hammer on top of Remover drives the Bushing out without damage to valve stem or bushing.
No. 500 Bushing Remover For Fords, List .....**$ .50**

NO. 340 LANCASTER LIFTER

The Lancaster Lifter is 10" long, strongly built of pressed steel and rust proofed by Udylite Process. The feature of the Lancaster Lifter is its locking device which is located entirely between the handles and engages in six different positions. Shipping weight 1 pound.
No. 340 Lancaster Lifter, List .....**$ .60**

NO. 505 K-D DUAL VALVE GRINDER

A very practical tool for grinding valves. The suction of a Vacuum Cup can be depended upon to grip valves tightly until thoroughly ground. Cups are of different size, permitting convenient use on all sizes of valves. Lacquer finish in Orange and Black. Shipping weight, ½ pound.
No. 505 Dual Valve Grinder, List .....**$ .60**

WALDEN SPINTITES

The Socket Wrench for Little Nuts — Works Like a Screwdriver

Little nuts! Millions of them to be tightened everywhere. In the home, in the radio shop, the electrical shop, in the industrial plant, on the automobile. Every work bench, every tool kit, needs spintites. Used by the big radio and car manufacturers for years.

There's a feel to Spintite "nut drivers" no tool user can resist. Built like a screw driver with a thin-walled hexagon socket on the end. Hollow shank so the socket will reach down over the bolt and grip the nut.

No.	Hex. Size	Dealer Price
3406	3/16	$ .25
3408	1/4	.25
3410	5/16	.25
3411	11/32	.25
3412	3/8	.25
3414	7/16	.40
3416	1/2	.40
3418	9/16	.75
3420	5/8	.75

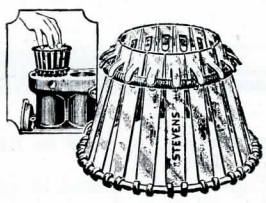
STEVENS PISTON RING TOOL

This tool will remove and apply any piston ring of any diameter or width and with any kind of cut or joint. It prevents harmful distortion and it eliminates breakage.

T-44. Piston Ring Tool Net Price $1.00

PISTON RING COMPRESSOR

Entirely Automatic —No Adjustments

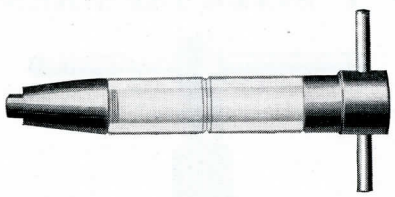


Prevents breakage of piston rings and instantly adjusts itself to all sizes and types of piston rings from 2¾" to 4½" in diameter, covering all the sizes of standard motors.

T-106—Stevens Ring Compressors, Net Price....$1.50

PISTON PIN INSERTING TOOL

No. T-713 for Ford "A"



Just the thing to quickly insert Piston Pins in connecting rods of Ford Model "A." Tapered nose of tool guides pin easily past lock-ring in connecting rod.

Parallel flat surfaces on tip of tool can be gripped by wrench or vise to hold from turning when removing tool from piston pin.

This tool can also be used for removing pins from piston. Light blows on nose will start pin on way out.

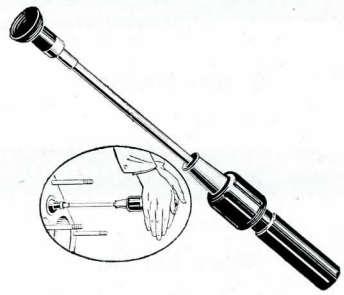
NOTE — (Heat piston when inserting or removing pins. Hold it in a Stevens Piston Vise.)

Weight, 12 oz., five to a carton. Code word GAS.

No. 713. Piston Pin Tool for Ford "A", Net Each $1.50

STEVENS "RUBBER CUPPED" VALVE GRINDER

No. T-187 For Ford Model "A"



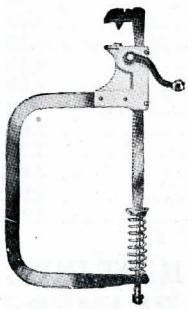
The rubber cup holds so firmly that valve can be lifted clear of the seat between spins. Springs in valve pockets not needed.

The two-speed handle has a large diameter which can be spun between the palms of the hands with a slow, heavy stroke while the valve grinding compound is being "worked in." The small diameter handle on top is used to spin the valve with a light, fast stroke to put the finishing touch on the valve.

No. T-187. Net Price, Each .....$ .50

THE LITTLE WONDER VALVE SPRING COMPRESSOR AND LIFTER

Saves Time—Saves Labor, Therefore a Money Maker



Two sizes—Standard Universal and Truck Special.

It is large enough to go over the largest manifold and yet so convenient as to pass between and around the carbureter, wires, etc., and is so substantial that it easily compresses the springs for removing the lock nut, pin, horseshoe or half moon. The tool is provided with an absolute lock nut so that danger of dropping locks or slipping is entirely eliminated.

There are three different sizes of the Spring Holders, such as are shown, and these will hold practically all sized valve springs for replacing in motor, and are a great saving in time and labor and overcome the usual annoyance which attends the replacing of springs.

Net Prices

Standard Universal $7.50
Truck Special 8.50

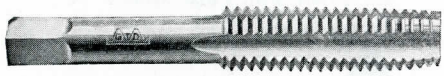
SPRING JAWS

Extra Pair No. 1 Straight Jaws, Net $1.00
Extra Pair No. 2—Off-Set Jaws, Net 1.00
Extra Pair No. 3—Spe. Off-Set Dodge Senior Six, Net 1.00
Extra Pair No. 4—Cadillac or Lincoln 1.25
(Heavier Than No. 1 Straight Jaw)
All Jaws are Interchangeable

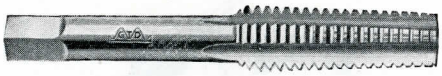
SPRING HOLDERS

Three Sizes Spring Holders, shaped as those which accompany the Little Wonder Valve Tool, Net $1.25
Straight Blank Spring Holder, not shaped, 50c each; 3 for $1.25

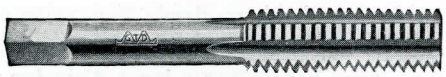
G T D HAND TAPS



Taper—No. 302



Plug—No. 303

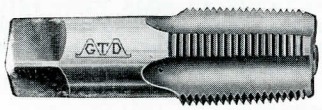


Bottoming—No. 304

STYLE OF THREAD
V. A. S.—U. S. S.—S. A. E.
List Price—Carbon Steel

Diam. of Tap Inches	Each	Diam. of Tap Inches	Each
1/16	$ .50	3/8	$ .55
5/64	.45	7/16	.60
3/32	.40	1/2	.70
7/64	.40	9/16	.80
1/8	.35	5/8	.90
9/64	.35	11/16	1.05
5/32	.35	3/4	1.20
11/64	.35	13/16	1.40
3/16	.40	7/8	1.60
13/64	.40	15/16	1.80
7/32	.45	1	2.00
15/64	.45	1 1/8	2.25
1/4	.45	1 1/4	2.60
5/16	.50	1 3/8	3.00
		1 1/2	3.50

G T D TAPER AND STRAIGHT PIPE TAPS AND TAPER PIPE REAMERS



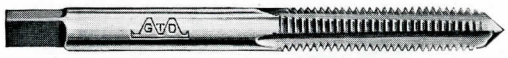
List Price, Each—Taps or Reamers

Pipe Size Inches	Carbon Steel	Pipe Size Inches	Carbon Steel
1/8	$1.00	7/8	$4.40
1/4	1.20	1	4.40
3/8	1.60	1 1/4	5.00
1/2	2.00	1 1/2	6.60
5/8	2.80	1 3/4	8.00
3/4	2.80	2	10.00
		2 1/4	12.00

SPARK PLUG TAPS

Spark Plug Tap Set No. 33 (in handy wooden box) containing 7/8"-18 SAE; 18m/m 1.5m/m Pitch; 1/2" Briggs Standard Pipe.
List Price $3.80

G T D MACHINE SCREW TAPS

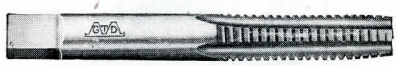


Regular Plug Style No. 305

Screw Gage No.	List Prices Carbon Steel Each	Std.	No. of Threads to the Inch Also Furnished
0	$ .50	80	
1	.50	72	56, 64
2	.45	64	56
3	.40	56	48
4	.40	48	32, 36, 40
5	.35	44	36, 40
6	.35	40	32, 36
7	.35	36	30, 32
8	.35	36	30, 32, 40
9	.35	32	24, 30
10	.40	30	24, 28, 32
12	.45	28	24, 32
14	.45	24	20
16	.45	22	18, 20
18	.50	20	18

STOVE BOLT TAPS

Regular, No. 314 **"Gun" Style No. 324**

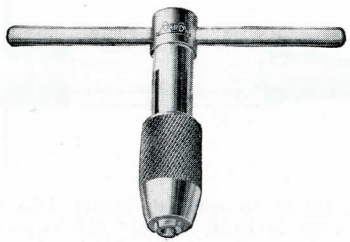


These taps correspond in sizes to American Screw Company's Stove Bolts.
Stove Bolt Taps are furnished in plug style only.
Sizes, lengths and threads not listed are subject to special prices.
Left hand taps are special.

Sizes and Prices

Diameter of Tap, Inches	Number of Threads to the Inch	List Price, Each Regular, No. 314
3/16	24	$ .40
1/4	18	.45
5/16	18	.50
3/8	16	.55

G T D "T" STYLE TAP WRENCHES

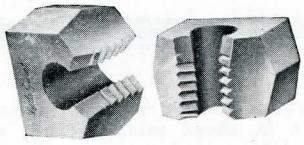


Ratchet Models Nos. 338, 339 have same capacity as Nos. 329, 333 respectively, listed below.
Nos. 338, 339 have right and left hand ratchet, and sliding "T" handle. List price **$1.50** and **$2.50** respectively.

Capacity (Tap Sizes)

No.	Hand	Mach. Screw	Pipe	Length Inches	Price Each
329	1/16 to 3/32"	0 to 18		2 1/2"	$ .75
333	7/32 to 1/2"	12 to 30	1/8	3 5/8"	1.25
336	1/16 to 3/32	0 to 18		8 3/4"	1.25
337	7/32 to 1/2"	12 to 30	1/8	10 5/8"	1.75

LITTLE GIANT ADJUSTABLE DIES



USS threads furnished unless otherwise specified.

Sizes, dimensions and threads not listed are subject to special prices. Left hand dies are special.

In ordering dies, specify outside diameter of collet.

Cutting Sizes	Diam. Collets List Price Die, Each Size *2", 2¾",4", 4½"	No. Threads per In. Standard Pitches USS	SAE
¼	**$1.00**	20	28
5/16	**1.00**	18	24
⅜	**1.25**	16	24
7/16	**1.25**	14	20
½	**1.50**	13	20
9/16	**1.50**	12	18
⅝	**1.75**	11	18
11/16	**1.75**	11	16
¾	**2.00**	10	16
13/16	**2.75**	10	
⅞	**2.75**	9	14, 18
15/16	**2.75**	9	
1	**2.75**	8	14
1⅛	**4.00**	7	12
1¼	**4.00**	7	12
1⅜	**5.00**	6	12
1½	**5.00**	6	12

*NOTE—2" diameter collets take die sizes 3/16"-½" inclusive.

2¾" diameter collets take die sizes 3/16"-1" inclusive.
4" diameter collets take die sizes ⅝"-1¼" inclusive.
4½" diameter collets take die sizes 13/16"-1½" inclusive.

Style of Threads — VOS, USS, SAE

G T D TAP AND REAMER WRENCHES

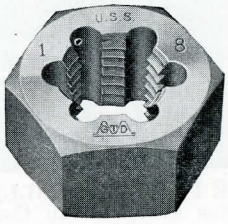
These wrenches are carefully made. Jaws are of best tool steel, hardened and tempered.

Handles knurled and body handsomely mottled.

No.	Capacity (Tap Sizes) Hand	Mach. Screw	Pipe	Length Inches	Price Each
00	1/16 to 3/16"	0 to 13	....	5	**$1.75**
0	1/16 to ¼"	0 to 18	....	7	**2.00**
4	1/16 to ⅜"	0 to 24	⅛	9	**3.00**
5	3/16 to ½"	10 to 30	⅛ to ¼	11	**3.50**
6	¼ to ¾"	14 to 30	⅛ to ⅜	15	**4.00**
7	⅜ to 1"	15 to 30	⅛ to ¾	19	**5.00**
7½	⅜ to 1¼"	22 to 30	¼ to ¾	31	**6.50**
8	¾ to 1½"		⅜ to 1"	40	**8.00**

SOLID HEXAGON RE-THREADING DIES

No. 377



These dies are used only for repair work, for dressing over bruised or rusty threads. They have approximately one thread chamfer on both front and rear face.

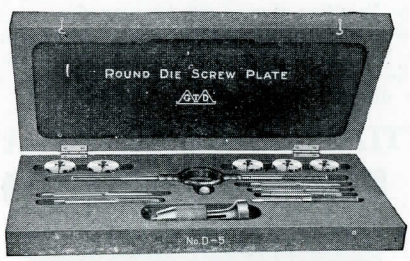
They can be used in bit-brace sockets, ratchet or monkey wrenches, and will be found convenient in many ways.

They are accurate, durable and will give satisfactory service.

USS threads furnished unless otherwise ordered.

Size	List Price, Each	Size	List Price, Each
¼	$ .70	11/16	$1.60
5/16	.80	¾	1.80
⅜	.90	⅞	2.10
7/16	1.00	1	2.40
½	1.10	1⅛	2.80
9/16	1.20	1¼	3.20
⅝	1.40	1⅜	3.60
		1½	4.00

"BUTTON" DIE SCREW PLATES



These assortments contain plug taps and "Button" dies in the cutting sizes and with threads per inch as listed below. They are very handy for small work of all kinds. Both taps and dies are made with an accuracy and care unusual in small sets of this sort.

A screw driver is included to facilitate adjustment of the dies when necessary.

No.	Machine Screw D-5	D-6	D-7	D-10	Fractional Sizes DD5	DD6	DD8
				2-56			1/16-64
				3-48			3/32-50
	4-36	4-36	4-36	4-36		7/64-48	7/64-48
				5-36	⅛-40	⅛-40	⅛-40
Cut'g	6-32	6-32	6-32	6-32			
Sizes	8-32	8-32	8-32	8-32	5/32-36	5/32-36	5/32-36
and	10-24	10-24	10-24	10-24	3/16-24	3/16-24	3/16-24
Threads			10-32	10-32	7/32-24	7/32-24	7/32-24
per	12-24	12-24	12-24	12-24	¼-20	¼-20	¼-20
Inch		14-20	14-20	14-20			
List Price Per set—	**$8.00**	**$9.00**	**$10.00**	**$13.00**	**$8.00**	**$9.00**	**$11.00**

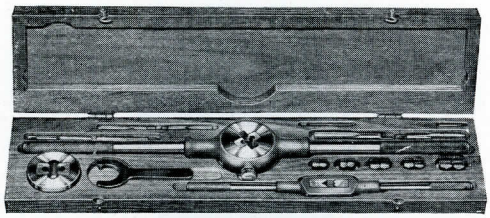
A-1 SCREW PLATE

Single Stock

Sizes	⅛-40	5/32-36	3/16-24	7/16-24	¼-20
List Price Per Set					**$11.50**

PERICLES SCREW PLATE

With Little Giant Pattern Dies



THE PERICLES COLLET

One collet takes every die in the No. 1 and 31 plates, and a second collet takes the additional sizes in the other plates. A third collet is furnished with the No. 7 plate, which also has two tap wrenches. The dies are reversible in the collet. Small die blanks fit one slot, larger blanks fit the other as shown.

THE PERICLES STOCK

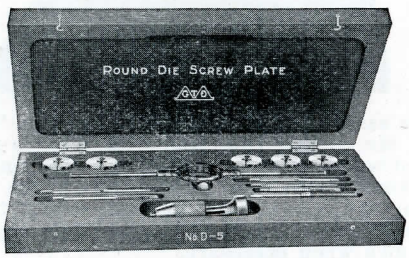
It has an adjustable guide which can be instantly set to required size and locked by the turn of a thumb screw. Handsome red enamel finish.

List of Pericles Screw Plates

No.	Capacity	Collet Diam. In.	Stock L'gth In.	List Price Each
1	¼ 20 5-16 18 ⅜ 16 7-16 14 ½ 13	2	14	$8.50
2	¼ 20 ⅜ 16 ½ 13 ⅝ 11 ¾ 10	2¾	23	12.00
5	¼ 20 5-16 18 ⅜ 16 7-16 14 ½ 13 ⅝ 11 ¾ 10	2¾	23	14.00
7	¼ 20 5-16 18 ⅜ 16 7-16 14 ½ 13 ⅝ 11 ¾ 10 ⅞ 9 1″ 8	2¾	26	24.00
31	¼ 28 5-16 24 ⅜ 24 7-16 20 ½ 20	2	14½	8.50
35	¼ 28 5-16 24 7-16 20 ½ 20 ⅝ 18 ¾ 16	2¾	23	14.00
310	NC(USS) ¼ 20 5-16 18 ⅜ 16 7-16 14 ½ 13; NF(SAE) ¼ 28 5-16 24 ⅜ 24 7-15 20 ½ 20	2	14½	14.50
311	NC(USS) ¼ 20 5-16 18 ⅜ 16 7-16 14 ½ 13 9-16 12 ⅝ 11 ¾ 10; NF(SAE) ¼ 28 5-16 24 ⅜ 24 7-16 20 ½ 20 9-16 18 ⅝ 18 ¾ 16	2¾	23	27.50

Every Pericles Screw Plate contains a Greenfield tap and Little Giant Pattern Die for each cutting size; a Greenfield tap wrench, Pericles adjustable guide die stock and appropriate size collets for holding the dies.

LITTLE GIANT SCREW PLATES



		List Price, Each
No. 1	Single Stock ¼ to ½ (5 sizes) USS	$18.50
No. 5	Single Stock ¼ to ¾ (7 sizes) USS	27.50
No. 5½	Single Stock ¼ to ¾ (8 sizes) USS	30.75
No. 7	Single Stock ¼ to 1 (9 sizes) USS	42.00
No. 35	Single Stock ¼ to ¾ (7 sizes) SAE	27.50
No. 310	Combination USS & SAE ¼ to ½ (10 sizes)	29.25
No. 311	Combination USS & SAE ¼ to ¾ (16 sizes)	56.00
No. 312	Combination USS & SAE ¼ to 1 (20 sizes)	79.00

REPAIRMAN'S TAPER REAMERS

The repairman's taper reamer is handy for enlarging holes in sheet metal, wood, hard rubber, steel, etc., and for reaming out or aligning holes.

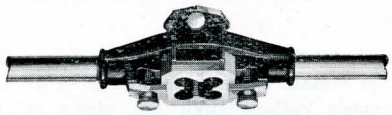
No.	Diameter Large End	Diameter Point	Length Overall	Length Reamer Part	List Price Each
5	1½″	⅛″	6½″	4½″	$1.00
6	1″	⅜″	6½″	4½″	1.50

COUNTERSINKS

Stocked in three styles of shank, Bit Brace, ½″ Round and 41/64″ Round. Order by number.

Bit Brace Shank	Number ½″ Rd. Shank	Number 41/64″ Rd. Shank	List Price Each	Size Cut Diameter Inches	Size Cut Angle Degrees
501	502	503	$ .80	⅝″	54°
504	505	506	.80	⅝″	82°
507	508	509	1.05	¾″	54°
511	512	513	1.05	¾″	82°

REED MALLEABLE IRON STOCKS FITTED WITH Q & E DIES FOR PIPE



A set consists of stock complete with assortment of dies and guides as listed, each set packed in a fibre-board box.

The stock, handles, screw and other parts are interchangeable with same parts of the bolt sets. In consequence, bolt dies and guides of corresponding size can be used in these pipe stocks and vice-versa. Handles are polished and have rounded ends.

Set No.	Threading Range, Ins.	Price Complete	Set No.	Threading Range, Ins.	Price Complete
0SP1	⅛ to ½	$ 8.00	1½SP3	¼ to 1¼	$15.50
1SP1	¼ to 1	10.50	1½SP5	½ to 1¼	11.50
1SP2	⅛ to 1	12.00	2SP1	1¼ to 2	14.50
1SP3	⅛ to ¾	10.50	2SP2	1 to 2	17.00
1SP4	½ to 1	7.50	2SP3	¾ to 2	19.50
1SP5	⅜ to 1	9.00	2SP4	½ to 2	22.00
1½SP1	¾ to 1¼	9.50			

REED IMPROVED PIPE CUTTERS

(Saunders Type)

This is a roller type cutter with a single cutter wheel, suitable for work where cutter can be revolved entirely around the pipe. The rollers turn in the burr on the end of the pipe and have a tendency to make the wheel cut true by holding the cutter straight on pipe.

Price with No. 1S Cutter (⅛ to 1″ pipe). Complete ..... $ 3.00

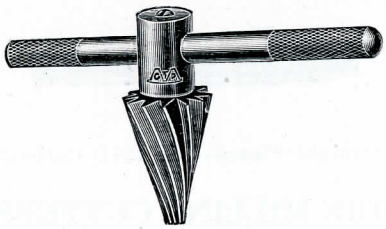
Price with No. 2S Cutter (1 to 2″ pipe). Complete 4.50

Price with No. 3S Cutter (2 to 3″ pipe). Complete 11.00

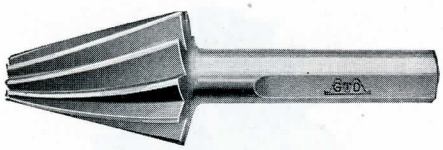
STANDARD TOOL CO'S. COMPLETE CATALOG ON REQUEST

BURRING REAMERS

With Spiral and Straight Flutes



No. 246



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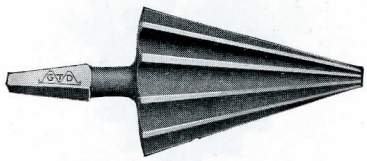
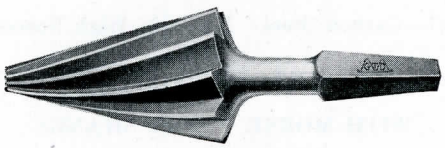


Straight Fluted Nos. 1 and 2



Nos. 241, 242, 242½ and 244

These Burring Reamers are made of finest steel and designed especially for removing burrs, caused by cutting pipe.

They are also extensively used for countersinking.

Great care is taken in grinding these tools to adapt them for use in a variety of materials.

Spiral Fluted Burring Reamers

Order by this No.	List Price Each	Style of Shank	Capacity Pipe Inches
241	**$1.00**	Bit Brace	⅛ to ½
242	**1.25**	Bit Brace	⅛ to 1
242½	**1.50**	Bit Brace	¼ to 1¼
243	**1.50**	½ Round	¼ to 1¼
244	**3.00**	Bit Brace	¼ to 2
246	**4.00**	T Handle	¼ to 2
	Straight Flute Burring Reamers		
1	**$1.50**	Bit Brace	¼ to 1¼
2	**3.00**	Bit Brace	¼ to 2

HELICAN HIGH SPEED TAPER PIN REAMERS

A New Development

STRAIGHT FLUTED END MILLS

With Morse Taper Shanks

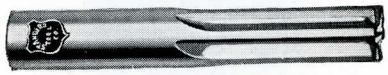
These End Mills are furnished regularly in right hand.

End Mills having dimensions other than listed and Left Hand End Mills are special and subject to special prices.

No. 138B—Carbon Steel No. 761—High Speed Steel

STRAIGHT SHANK END MILLS

Right Hand Mill



These End Mills are regularly furnished either right or left hand.

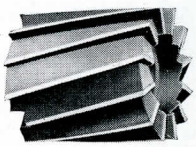
Straight Shank End Mills under ⅜ inch diameter have straight teeth; those ⅜ inch diameter and over have spiral teeth.

End Mills having dimensions other than listed are special and subject to special prices.

No. 138½D—Carbon Steel
No. 770—High Speed Steel

SHELL END MILLS

Righ Hand Mill



Shell End Mills are regularly furnished either right or left hand and with spiral teeth.

In ordering, state whether Right or Left Hand Mills are wanted.

Shell End Mills with straight teeth or those having dimensions other than listed are special and subject to special prices.

No. 138E—Carbon Steel No. 769—High Speed Steel

TAPER PIN REAMERS

These Reamers all have the same taper, and the point of each will enter a hole reamed by the next smaller size.

Straight Flute

No. 126—Carbon Steel No. 680—High Speed Steel
Taper ¼ inch per foot

TAPER PIN REAMERS

With Taper Shanks

No. 126A—Carbon Steel

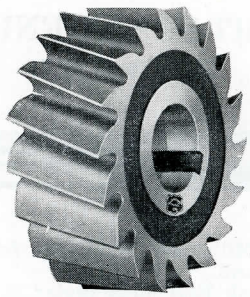
STANDARD TOOL CO'S. TOOLS COMPLETE CATALOG ON REQUEST

EXPANSION REAMERS

With Spiral Flutes

No. 128E—Carbon Steel

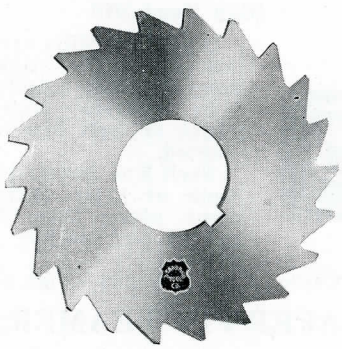
PLAIN MILLING CUTTERS



Cutters of less than ¾ inch face have straight teeth. Cutters of ¾ inch face and over have spiral teeth.

No. 139—Carbon Steel No. 700—High Speed Steel

METAL SLITTING SAWS

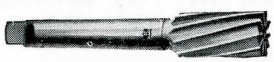


Metal Slitting Cutters are ground concave on the sides for clearance.

No. 139C—Carbon Steel No. 724—High Speed Steel

SPIRAL END MILLS

WITH BROWN & SHARPE TAPER SHANKS



Left Hand Mill

These End Mills are regularly furnished either right or left hand.

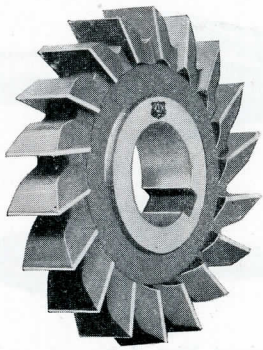
End Mills having dimensions other than listed are special and subject to special prices.

No. 138—Carbon Steel No. 762—High Speed Steel

EXPANSION REAMERS

With Straight Flutes—No. 128D Carbon Steel

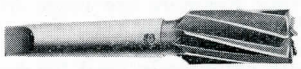
SIDE MILLING CUTTERS



No. 141—Carbon Steel No. 702—High Speed Steel

SPIRAL END MILLS

WITH MORSE TAPER SHANKS



These End Mills are regularly furnished in right hand.

End Mills having dimensions other than listed and Left Hand End Mills are special and subject to special prices.

No. 138½—Carbon Steel

No. 763—High Speed Steel

STRAIGHT FLUTED END MILLS

WITH BROWN & SHARPE TAPER SHANKS

Right Hand Mill

These End Mills are regularly furnished in either right or left hand.

End Mills having dimensions other than listed are special and subject to special prices.

No. 138A—Carbon Steel No. 760—High Speed Steel

WATERVLIET SPIRAL REAMERS

"THEY WILL NOT CHATTER"

WATERVLIET SPIRAL EXPANSION ALIGNING REAMER WITH FLOATING PILOT

Specially designed for Piston Pin Bushings. Each reamer fitted with a floating collet guide on pilot which positively and automatically holds the reamer true to alignment while reaming.

Reamers No. 625FPE to 874FPE expand from standard to .013 inches oversize. Reamers larger than 874FPE to 1500FPE expand from standard to .018 inches.

Each reamer is equipped with positive lock nut, making it impossible to over-expand.

No.	Diam. In.	Lgth. In.	Each
625FPE	⅝		$6.48
668FPE	.668	8½	7.29
686FPE	11-16		7.29
*730FPE	.730		8.10
*734FPE	47-64		8.10
3022½FPE	.740	9½	8.10
*750FPE	¾		8.10
*796FPE	51-64		8.64
*812FPE	13-16		8.64
843FPE	27-32		8.64
*850FPE	.850		8.91
855FPE	.855	10	9.18
*859FPE	55-64		9.18
864FPE	.864		9.18
*874FPE	⅞		9.18
917FPE	.917	10¼	9.72
937FPE	15-16		9.72
*968FPE	31-32		9.99
984FPE	63-64		10.25
*990FPE	.990	10¾	10.25
*999FPE	1.		10.25
1047FPE	1 3-64		$11.34
*1062FPE	1 1-16		11.34
*1093FPE	1 3-32	11½	11.88
1105FPE	1 7-64		12.42
*1125FPE	1⅛		12.42
1156FPE	1 5-32		12.96
1187FPE	1 3-16		13.50
1218FPE	1 7-32		14.04
1225FPE	1.225	11¾	14.58
1235FPE	1 15-64		14.58
1250FPE	1¼		14.58
1293FPE	1.293		15.39
1312FPE	1 5-16	12	15.39
1375FPE	1⅜		16.20
1437FPE	1 7-16		17.01
1485FPE	1 31-64	12½	17.82
1500FPE	1½		17.82

*Indicates reamers most frequently used.

No. 7FPE Set, containing Nos. 734FPE, 750FPE, 812FPE, 850FPE, 874FPE, 990FPE, 999FPE, each $63.45

No. 10FPE Set, same as No. 7 plus Nos. 937FPE, 1062FPE, 1093FPE, each 96.30

WATERVLIET SPIRAL EXPANSION ALIGNING REAMER

This pictures the PE type reamer which can be furnished in the same sizes with the same prices as the above listed FPE type. Note the self-cutting pilot which does the rough cutting leaving the reamer proper to do the finish reaming only. Be sure to substitute the letters PE for FPE if this reamer is wanted.

NO. 647P WATERVLIET SPIRAL VALVE STEM GUIDE REAMERS WITH PILOTS

Cuts easily and smoothly with a shearing motion. Has self cutting pilot 1/64 inch smaller than cutting flutes. Shank acts as rear guide.

Size, In.	5/16	21/64	11/32	23/64	.373	3/8	25/64
Each	$1.70	$1.70	$1.75	$1.75	$1.80	$1.80	$1.80
Size, In.	13/32	27/64	7/16	29/64	15/32	31/64	½	33/64
Each	$1.90	$1.90	$2.00	$2.00	$2.15	$2.15	$2.30	$2.30

NO. 123 PE WATERVLIET SPIRAL EXPANSION VALVE STEM GUIDE REAMERS WITH PILOTS

Can be used for diameter a trifle under listed size and to .005 inches oversize. Positive lock nut prevents over-expansion. No chattering.

Size, In.	5/16	21/64	11/32	23/64	.373	3/8	25/64
Each	$3.75	$3.75	$3.85	$3.85	$3.90	$3.90	$3.90
Size, In.	13/32	27/64	7/16	29/64	15/32	31/64	½	33/64
Each	$4.00	$4.00	$4.10	$4.10	$4.20	$4.20	$4.30	$4.30

WATERVLIET DIAGONAL ADJUSTABLE REAMERS

*4A, 3A, 2A Blades, set of four only.

No.	Range of Expansion	Lgth. Blades Ins.	Lgth. O'All Ins.	Each	Extra Blades Set of Six	Ext. Nut Each
4A	⅜ (.375) to 13-32 (.406)	15-16	5	$3.05	*$1.10	$ .25
3A	13-32 (.406) to 7-16 (.437)	15-16	5¼	3.05	*1.10	.25
2A	7-16 (.437) to 15-32 (.468)	15-16	5½	3.05	*1.10	.25
A	15-32 (.468) to 17-32 (.531)	2	5¾	3.05	1.60	.25
B	17-32 (.531) to 19-32 (.593)	2	6	3.05	1.60	.25
C	19-32 (.593) to 21-32 (.656)	2½	6½	3.20	1.60	.25
D	21-32 (.656) to 23-32 (.718)	2½	7	3.20	1.60	.25
E	23-32 (.718) to 25-32 (.781)	2¾	7½	3.40	1.90	.30
F	21-32 (.781) to 27-32 (.843)	2¾	8	3.40	1.90	.30
G	27-32 (.843) to 15-16 (.937)	3	8½	3.70	2.15	.35
H	15-16 (.937) to 1 1-16 (1.062)	3¼	9	3.90	2.15	.35
I	1 1-16 (1.062) to 1 3-16 (1.187)	3½	10	4.75	2.45	.40
J	1 3-16 (1.187) to 1 11-32 (1.343)	3¾	11	5.40	2.45	.40
K	1 11-32 (1.343) to 1 17-32 (1.531)	4	12	6.75	2.70	.45
L	1 17-32 (1.531) to 1 25-32 (1.781)	4⅝	13	10.00	3.15	.45
M	1 25-32 (1.781) to 2 1-32 (2.031)	4⅞	14	13.50	3.60	.65

No. 5WP Set, consisting of five reamers Nos. D to H, inclusive, covering all diameters from 21/32 in. to 1 1/16 in., in strong steel case (weight 5 lbs. 6 oz.), each $18.00

No. 8WP Set, consisting of eight reamers Nos. A to H, inclusive, covering all diameters from 15/32 in. to 1 1/16 in., in strong steel case (weight 8 lbs.), each 27.50

WATERVLIET DIAGONAL ADJUSTABLE BLADE KING BOLT REAMERS WITH FLOATING PILOTS BOTH FRONT AND REAR

Each expands a full 1/16 in., each size overlapping.

No. 6KD Set of 6 most frequently used sizes: Nos. 531, 593, 718, 781, 843, and 968 in strong steel box, each $58.50

No.	Range of Expansion	Length Over-all	Reamers Each	Extra Blades Set of Six	Extra Nuts Each
531KD	17-32 (.531) to 19-32 (.593)	12⅝	$8.10	$1.60	$ .25
593KD	19-32 (.593) to 21-32 (.656)	12½	8.40	1.60	.25
656KD	21-32 (.656) to 23-32 (,718)	13¾	8.70	1.60	.25
718KD	23-32 (.718) to 25-32 (.781)	15⅛	9.30	1.90	.30
781KD	25-32 (.781) to 27-32 (.843)	15⅜	9.60	1.90	.30
843KD	27-32 (.843) to 29-32 (.906)	15⅝	9.90	2.15	.35
906KD	29-32 (.906) to 31-32 (.968)	17¾	10.50	2.15	.35
968KD	31-32 (.968) to 1 1-32 (1.031)	17⅞	10.80	2.15	.35

WATERVLIET SOLID SPIRAL KING BOLT REAMERS

With Front and Rear Guiding Pilots

No.	Diam. In.	Lgth. In.	Each	No.	Diam. In.	Lgth. In.	Each
562P	9/16	11½	$4.50	844P	27/32	13½	$6.40
618P	.618	11½	4.80	859P	55/64	14¼	6.40
625P	5/8	11½	4.80	862P	.862	14¼	6.40
687P	11/16	11½	5.10	875P	7/8	14¼	7.00
734P	47/64	11½	5.40	937P	15/16	14¼	7.60
741P	.741	12¾	5.40	1000P	1	14¼	8.20
750P	¾	12¾	5.40	1125P	1⅛	15¼	8.80
802P	.802	13½	5.80	1250P	1¼	15¼	9.40
805P	.805	13½	5.80	1750P	1¾	16¼	12.00
812P	13/16	13½	5.80	.....	.....	.....	.....

NO. 608 WATERVLIET SPIRAL HAND REAMERS

Diam. Inches	Each	Length Flutes Inches	Length O'All Inches	Diam. Inches	Each	Length Flutes Inches	Length O'All Inches
5/16	$1.35	4½	2¼	5/8	$2.00	7	3½
3/8	1.43	5	2½	11/16	2.18	7¾	3⅞
7/16	1.61	5½	2¾	¾	2.33	8⅜	4 3/16
½	1.73	6	3	⅞	2.80	9¾	4⅞
9/16	1.80	6½	3¼	1	3.34	10⅞	5 7/16

This reamer can be furnished in any diameter.

WATERVLIET SPIRAL REAMERS

For Model A Ford Cars

No. A3034-5573 Reamer (5 ozs.) $1.80
This Reamer takes care of the following two Bushings:
No. 3034 Front Spring Perch Bushing.
No. 5573 Rear Spring Perch Bushing.

No. A3109 Spindle Body Bushing Reamer (Without Pilot) (15 ozs. $1.80

No. A3109P Spindle Body Bushing Reamer (With Self-Cutting Pilot) (1 lb. 6 ozs.) $3.60

No. A3553 Steering Gear Housing Bushing Reamer (1 lb. 2 ozs.) $3.00

No. A3576BP Solid Steering Worm Sector Bushing Reamer (With Pilot) 2 lbs.) $4.50

No. 3576BPE Expansion Steering Worm Sector Bushing Reamer (with Pilot) (2 lbs. 8 ozs.) $12.40

No. A6135 Solid Piston Pin Reamer (Without Pilot) (Standard) (1 lb. 2 ozs.) $2.40
This reamer in any oversize 2.75

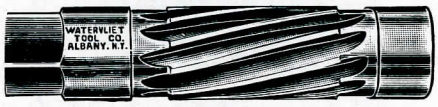
No. A6135P Solid Piston Pin Reamer (With Pilot) (Standard) (1 lb. 11 ozs.) $3.60
This reamer in any oversize 4.00

No. A6135FPE Expansion Piston Pin Reamer (With Floating Pilot) 1 lb. 10 ozs.) $10.25
(Takes in Standard and oversize Pins).

No. A6135PE Expansion Piston Pin Reamer (With Pilot) (1 lb. 12 ozs.) $10.25

WATERVLIET SPIRAL REAMERS

WATERVLIET SPIRAL REAMERS FOR MODEL A FORD CARS (Continued)

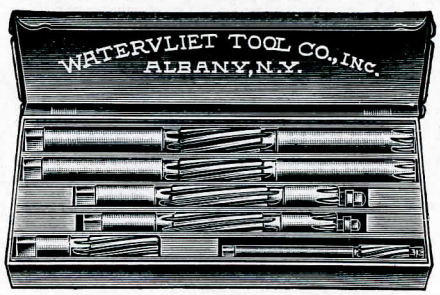


No. A6200P Solid Connecting Rod Bearing Reamer (With Pilot) (2 lbs. 12 ozs.) $6.00

No. A6500 Push Rod Reamer (Standard) (5 ozs.) $1.80
No. A6500X Push Rod Reamer (1/64" oversize) (5 ozs.) $2.40

No. A8520P Water Pump and Fan Assembly Bushing Reamer (With Pilot) (12 ozs.) $3.60

WATERVLIET SPECIAL REAMER SETS



Buick Set

Consists of seven reamers for piston pins, king bolts, valve stems, and rocker arms on all models 1924 to 1930, inclusive.
No. 7B Buick Set (12 lbs.), each $54.00

Chevrolet Set

Consists of eight reamers for piston pins, spindle bolts, tie rod bolts, valve stems, rocker arms, spring eyes, and shackle bolts on all models 1924 to 1930, inclusive.
No. 121 Chevrolet Set (7 lbs. 14 ozs.), each $42.25

Dodge Set

Consists of seven reamers for piston pins, spindle bolts, valve stems, tie rods, spring eye and shackle bolt reamers for all models, 1924 to 1930, inclusive.
No. 112 Dodge Set (10 lbs. 1 oz.), each $43.00

There is a complete set for each make of car and truck. Full information covering a set for the car in which you are particularly interested will be promptly furnished.

LITERATURE COVERING THE ENTIRE WATERVLIET LINE WILL BE FURNISHED UPON REQUEST

HINGE PIN REAMERS

Solid Oversize Hinge Pin Reamer

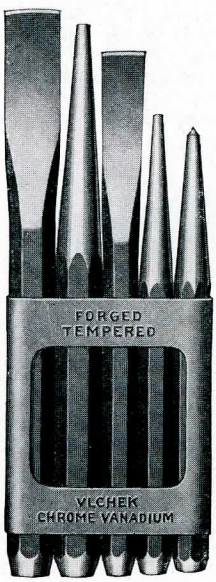
Expansion Oversize Hinge Pin Reamer

Solid (2 ozs.)	No. 265P for ¼" plus .015 oversize pins	$1.80
Expansion (2 ozs.)	No. 265E for ¼" plus .015 oversize pins	4.00
Solid (2 ozs.)	No. 355P for 11-32" plus .015 oversize pins	1.80
Expansion (3 ozs.)	No. 355E for 11-32" plus .015 oversize pins	4.00
Solid (2 ozs.)	No. 360P for 11-32" plus .020 oversize pins	1.80
Expansion (3 ozs.)	No. 360E for 11-32" plus .020 oversize pins	4.00

There is a pair of reamers for every Hinge Pin. Mention the length and diameter of the pin to be used and the proper reamers will be furnished.

These reamers should always be used in pairs — one each solid and expansion. Ream both male and female members of hinge with solid reamer, and then ream male member only with expansion reamer to correct swinging fit.

ALL PURPOSE SET



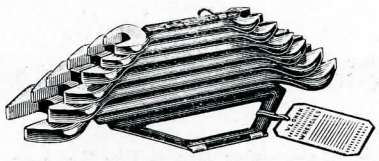
Here's the latest Vlchek idea of an unusually handy Chisel and Punch Set—forged and tempered for average use; consisting of the following: ⅜" Cold Chisel; ½" Cold Chisel; ⅜" Solid Punch and ⅜" Center Punch; packed in metal container.

No. 2410—Chrom-Vanadium, Net, per set $ .73

No. 2071—Black Carbon, Net, per set .....$ .38

NEW PARABOLIC CHROME-MOLYBDEN STEEL WRENCH SET

No. 2152



Vlchek's New "Parabolic" Type Chrome-Molybden Steel Electro Alloy Wrenches are not only more advanced in design and principle, but they inaugurate an entirely new idea in wrench design. For the first time a wrench has been produced that has the durability of the round head type open-end wrench and the convenience of the newest pear-shaped design. The thickness of the heads, the depth of the openings, and the size of the bar are scientifically and practically correct in their relations of one to the other making the strongest wrench on the market.

"They Sure Are Tough"
Positive lock on metal container
"PARABOLIC" WRENCHES
In a new, all-metal, side hinged, positive locking container
Every Wrench Opening a Different Size

Wrench No.	Openings Milled	USS Nut Size	USS and SAE Hex. Head Cap Screw Size	SAE Nut Size
723	3/8 & 7/16	.....	3/16 & 1/4	3/4
725-B	1/2 & 9/16	1/4	5/16 & 3/8	1/4
27	9/32 & 11/16	5/16 & 3/8	.....	5/16 & 3/8
729	5/8 & 3/4	.....	7/16 & 1/2	.....
31	25/32 & 7/8	7/16 & 1/2	5/8	7/16 & 1/2
33C	15/16 & 1	.....	5/8	9/16

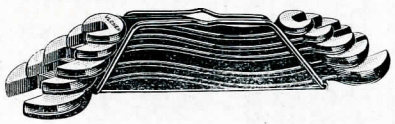
Chrome-Molybdenum, the finest and toughest alloy steel is electrically heat treated by the special Vlchek process to insure uniform hardness in every wrench.
Net Price, per set No. 2152 ..... **$1.90**

STAR "S" WRENCH SET

Double End Black Drop Forged

The Vlchek Star "S" Wrench Set for Automotive, Agricultural, Carriage and Wagon work, consists of five (5) Drop Forged Double End Service Wrenches: has ten (10) different milled openings of the most popular sizes.

Each wrench is properly hardened and assembled in a permanent metal container.



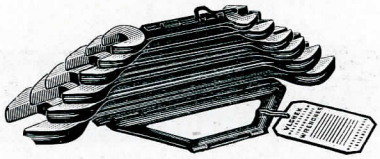
No. 2087 Set

Wrench No.	Openings Milled	USS Nut Size	USS & SAE Hex. Head Cap Screw Size	SAE Nut Size
75-B	3/8 & 7/16	.....	3/16 & 1/4	1/4
77-B	1/2 & 9/16	1/4	5/16 & 3/8	5/16 & 3/8
79	5/8 & 11/16	3/8	7/16	7/16
81-B	3/4 & 13/16	.....	1/2 & 9/16	1/2
83-B	7/8 & 1	1/2	5/8 & 3/4	9/16

Net Price, per set No. 2087 ..... **$ .68**

VLCHEK FITZ-ALL WRENCH SET

New "Parabolic" Carbon Steel Wrenches Drop Forged



No. 2153 Set
A New and Better Wrench

The New Vlchek Carbon Steel "Parabolic" Wrench makes it possible because of the new narrow jaw, to work in the closest corners, yet all the strength of the round head type wrench has been retained in the new design.

Positive lock on metal container

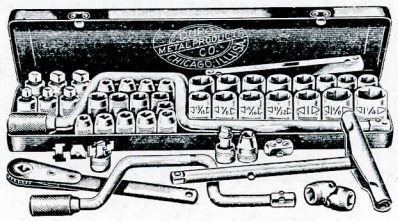
In a new, all-metal, side hinged, positive locking container

This set consists of six (6) Drop Forged Double End Engineers' Wrenches.

Wrench No.	Openings Milled	USS Nut Size	USS and SAE Hex. Head Cap Screw Size	SAE Nut Size
723	3/8 & 7/16	.....	3/16 & 1/4	1/4
725B	1/2 & 9/16	1/4	13/16 & 3/8	5/16 & 3/8
27	19/32 & 11/16	15/16 & 3/8	.....	.....
729	5/8 & 3/4	.....	7/16 & 1/2	7/16 & 1/2
31	25/32 & 7/8	7/16 & 1/2	5/8	9/16
33C	15/16 & 1	.....	3/4	5/8

Net Price, per set No. 2153 ..... **$ .60**

DURO HEAVY DUTY SOCKET SET



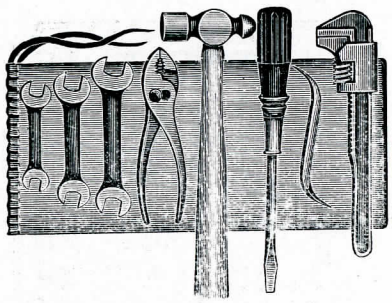
A Real Buy
45-Piece Set

Includes 6 sizes of drain plug socket. Also square and hexagon sockets.
Net Price, per set **$4.35**

No Value Like This Ever Offered Before

1. Machined from solid bar special analysis steel heat treated and hardened.
2. Standard ½-inch square drive sockets.
3. All fittings ½ inch square fit accurately in sockets.
4. Long and short speeder.
5. Heavy Duty Ratchet.
6. Combination L-T Handle.
7. Valve grinder socket.
8. Universal Joint.
9. 800 possible combinations.
10. Socket for Alemite fittings.
11. **Cadmium Plated**—Rust Proof.
12. Drawn case — no welded corners — baked japanned finish. Extra heavy gauge steel.

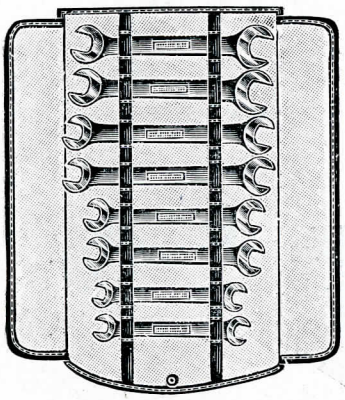
NO. 2111 TOOL KIT



No. 2111—8-piece Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
5″ Round Shank Screwdriver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10-oz. Ball Pein Hammer, Natural Finish.
$\frac{5}{16}$″ Cotter Pin Extractor, Natural Finish.
No. 23 Unfinished Tempered Wrench.
No. 25 Unfinished Tempered Wrench.
No. 27 Unfinished Tempered Wrench.
No. 711 Draw-String Bag.
Net Price, per set No. 2111 .....$ .89

CHROME-MOLYBDEN TAPPET SET



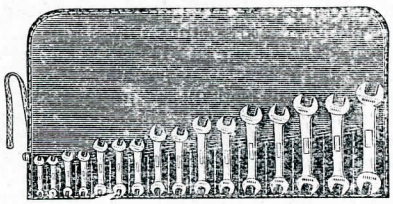
No. 2408
EIGHT PIECE SET

Set consists of two (2) each of the following wrenches—Nos. 90, 92, 93, and 94.

Net Price, per set No. 2408 ....**$3.00**

VLCHEK WRENCH SET

No. 2268
Chrome Molybdenium
16 Popular Sizes

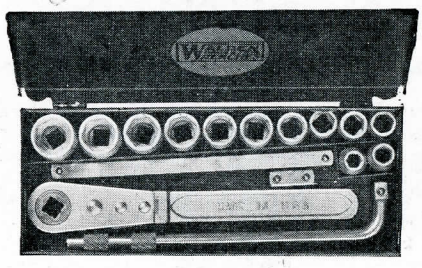


Parabolic 15° Wrenches in Enamelled Drill Case

Wrench No.	Openings Milled	For USS Nut Size Bolt	For Hex. Head Cap Screws Dia. Screw	For SAE Nut Size Bolt
1721	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{8}$ & $\frac{3}{16}$	.....
1021	$\frac{5}{16}$ & $\frac{13}{32}$	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{1}{8}$	.....
1723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$
1023	$\frac{13}{32}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$
1725	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
1725-B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$
1025	$\frac{1}{2}$ & $\frac{19}{32}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{16}$
1027	$\frac{19}{32}$ & $\frac{11}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	.....	.....
1727	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$
1729	$\frac{5}{8}$ & $\frac{3}{4}$	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$
1029	$\frac{11}{16}$ & $\frac{25}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....
1731-B	$\frac{13}{16}$ & $\frac{7}{8}$	$\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{9}{16}$
1731-A	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$
1033-C	$\frac{15}{16}$ & 1	.....	$\frac{3}{4}$	$\frac{5}{8}$ & $\frac{11}{16}$
1033	$\frac{7}{8}$ & $\frac{31}{32}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$	$\frac{9}{16}$
1034	$\frac{7}{8}$ &1 1/16	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$	$\frac{9}{16}$ & $\frac{3}{4}$

Net Price, Per set No. 2268 .....**$5.50**

WRENCH SET NO. 16-R

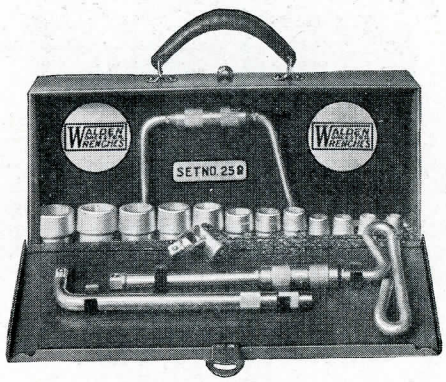


For work that requires a wide range of sockets with few accessory parts and handles. Adapted to busy garages that need extra socket sets.

Contents

Twelve Chrome Nickel Hex. Sockets—$\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{19}{32}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{25}{32}$, $\frac{13}{16}$, $\frac{7}{8}$, $\frac{15}{16}$, 1 in.
No. OR916—10½-inch Ratchet Wrench.
No. 1125—10½-inch Offset Handle.
No. 1109—Plug Connector for Ratchet Wrench.
No. 1139—9-inch Extension Bar for Ratchet Wrench.
Set No. 16-R Complete in steel box **$7.75**

WRENCH SET NO. 25-R



A very useful general-service assortment of the most needed parts.

Contents

Twelve Chrome Nickel Hex. Sockets—$\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{19}{32}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{25}{32}$, $\frac{7}{8}$, $\frac{15}{16}$, 1 in., 1 1/16.
No. 1115—Short Shank Speed Brace, rotating knurled grips, 14¼-inch.
No. 1122—Tee Handle with rotating knurled grip, 12-inch.
No. 1125—10½-inch offset handle.
No. 1102—Universal joint.
Set No. 25-R Complete in steel box **$9.70**

DRAIN PLUG SET NO. 21

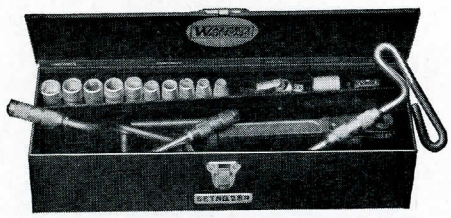
Fits Drain Plugs of over 90 per cent of Passenger Cars and Trucks

A necessity in every oil station and garage. A plug, hex. socket, or square socket to **quickly** remove the plug from any crank case or transmission. Sliding bar handle used as Tee or Offset.

Hex. Sockets No.	Size	Square Sockets No.	Size	Plugs No.	Size
316	½	0310	5/16	P-10	5/16
324	¾	0312	⅜	P-12	⅜
330	15/16	0314	7/16	P-14	7/16
332	1	0316	½	P-16	½
334	1 1/16	0318	9/16	P-18	9/16
336	1⅛	0320	⅝	P-20	⅝
340	1¼	0322	11/16	P-22	11/16
		0324	¾	P-24	¾
		0326	13/16		

Set No. 21 Complete in steel box $6.85

WRENCH SET NO. 28-R

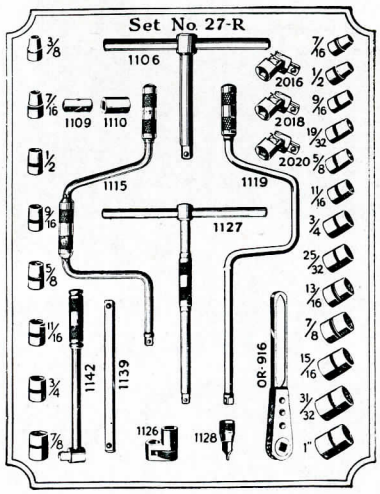


A popular service set for mechanics. All sorts of sockets required for ordinary service station and garage work; together with handles and parts for everything from high speed assembly to work—"in the tightest places." The generous size of the steel toolbox allows room for other tools. Supplied with "Hex" or "DoubleHex" Sockets.

Contents — 19 Pieces

10 Chrome Nickel Hex Sockets—7/16 to ⅞ in.
No. OR916—Ratchet Handle, 10½-inch.
No. 1142—Offset Handle, 10½-inch.
No. 1119—Long Shank Speed Brace, 20-inch.
No. 1106—Short Shank Tee Handle, 6-inch.
No. 1122—Tee Handle with rotating knurled grip, 12-inch.
No. 1109—Plug Connector.
No. 1139—Bar, 9-inch.
No. 1110—Socket Connector.
No. 1102—Universal Joint.
No. BX-20—Steel Box, 20½ x 6¼ x 5 inches deep.
Set No. 28-R Complete with "Hex" Sockets in steel box $13.60
Set No. 28-D Complete with "DoubleHex" Sockets in steel box 14.10

WRENCH SET NO. 27-R



Set No. 27-R Complete in steel box with tray. Size 21½ x 9 x 11. .....$25.95

Set No. 27-A Complete in steel box. Size 20½ x 6¼ x 5 .....$22.95

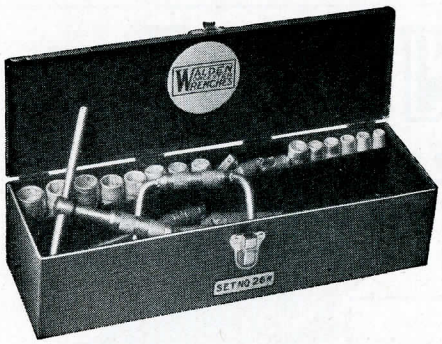
Designed to meet the requirements of the average industrial plant, factory, machine shop or auto service station. The large and varied assortment of sockets, for both hex and square nuts, fills every socket need encountered in the general run of work. The set contains 35 pieces—thirteen Chrome Nickel Hex. Sockets, 7/16 to 1 inch, eight Square Sockets, ⅜ to ⅞—three TeeFlex Sockets, ½, 9/16, ⅝; and an assortment of handles including:

No. OR916—Ratchet Handle.
No. 1115—Speed Brace, 15 in.
No. 1119—Speed Brace, 20 in.
No. 1127—Tee Handle, 12 in.
No. 1106—Tee Handle, 6 in.
No. 1139—9 in. Bar.
No. 1126—Stud Wrench.
No. 1128—Screw Driver.
No. 1109—Plug.
No. 1110—Connector.
No. 1142—Offset Handle, 10½ inch.

Supplied either in large capacity "Dog Coop" steel box (BX-30 with room for extra tools, or smaller box, BX-20.

Complete Stevens-Walden Catalogue On Request

WRENCH SET NO. 26-R



A set whose wide popularity clearly indicates that it is the ideal assortment for all around garage use. Many mechanics prefer it on account of its wide range of the most needed socket sizes and handy assortment of handles and special parts. Nickel trimmed and lacquered steel box, 20½ x 6¼ x 5 inches, has plenty of extra space. It's a genuine mechanics' tool kit.

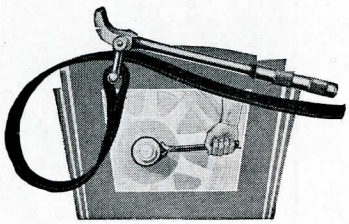
Supplied with either Hex or DoubleHex Sockets.

Contents—25 Pieces

Thirteen Chrome Nickel Hex. Sockets, $\frac{7}{16}$ to 1 inch.
No. OR916—Ratchet Handle.
No. 1106—Tee Handle, 6-inch.
No. 1127—Tee Handle, 12-inch.
No. 1115—Speed Brace, 15-inch.
No. 1119—Speed Brace, 20-inch.
No. 1142—Offset Handle, 10½-inch.
No. 1139—Bar, 9-inch.
No. 1109—Plug.
No. 1110—Connector.
No. 1126—Stud Wrench.
No. 1102—Universal Socket.
No. 1129—Screw Driver.

No. 26-R Complete with Hex Sockets **$18.60**
No. 26-D Complete with DoubleHex Sockets **19.50**

WALDEN-WORCESTER STRAP WRENCH NO. 457

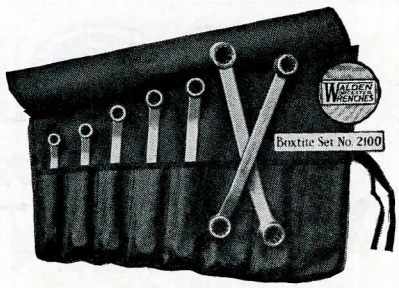


Here is a new item you can sell to every shop you call on. There are literally a million uses for it (we haven't time to demonstrate the million, but you'll find 'em). This wrench is a genuine chrome nickel drop forging, with a heavy duty canvas strap ingeniously attached so as to give positive gripping action under all circumstances. It takes all hub caps, headlight rims, radiator caps, gas caps, of any size, shape or character. All you have to do is show it. It sells itself.

Price, Net to Dealer **$2.00**

Complete Stevens-Walden Catalogue On Request

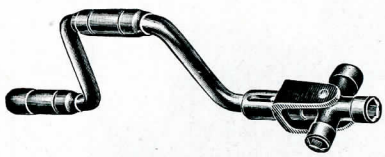
BOXTITE WRENCH SET NO. 2100



Latest refinement in wrenches combining speed, safety, strength and convenience. One end offset with tapered cup to reach in deep recesses. Thin narrow head on other end easily clears obstructions above the nut. Accurately double broached same size both ends. Chrome Alloy drop forged and specially heat treated to give unequalled strength and toughness. Set complete in roll containing seven Boxtite Wrenches for hex nuts—⅜ to ¾ inch.

Price, Net to Dealer **$8.90**

UNIVERSAL RIM WRENCH



No. 5104. This heavy duty service tool has quadruple drop-forged sockets. Sockets revolve in patented head—locked securely in place by simply snapping wrench head back on handle end. Desired socket in place instantly. Can be used for leverage as well as speed—built to stand severe strain.

Socket sizes—⅝", $\frac{11}{16}$", ¾", ⅞" hexagon.

No. 5104, List Price, Each **$3.95**

"RELIABLE" BUSHING EXTRACTOR

PRICES—SINGLE TOOLS

With Pilots

No.	Capacity	Dealers Net
101 P	½" to 1" (inclusive)	**$3.00**
115 P	1" to 1½" (inclusive)	**3.75**
102 P	1½" to 2" (inclusive)	**4.50**

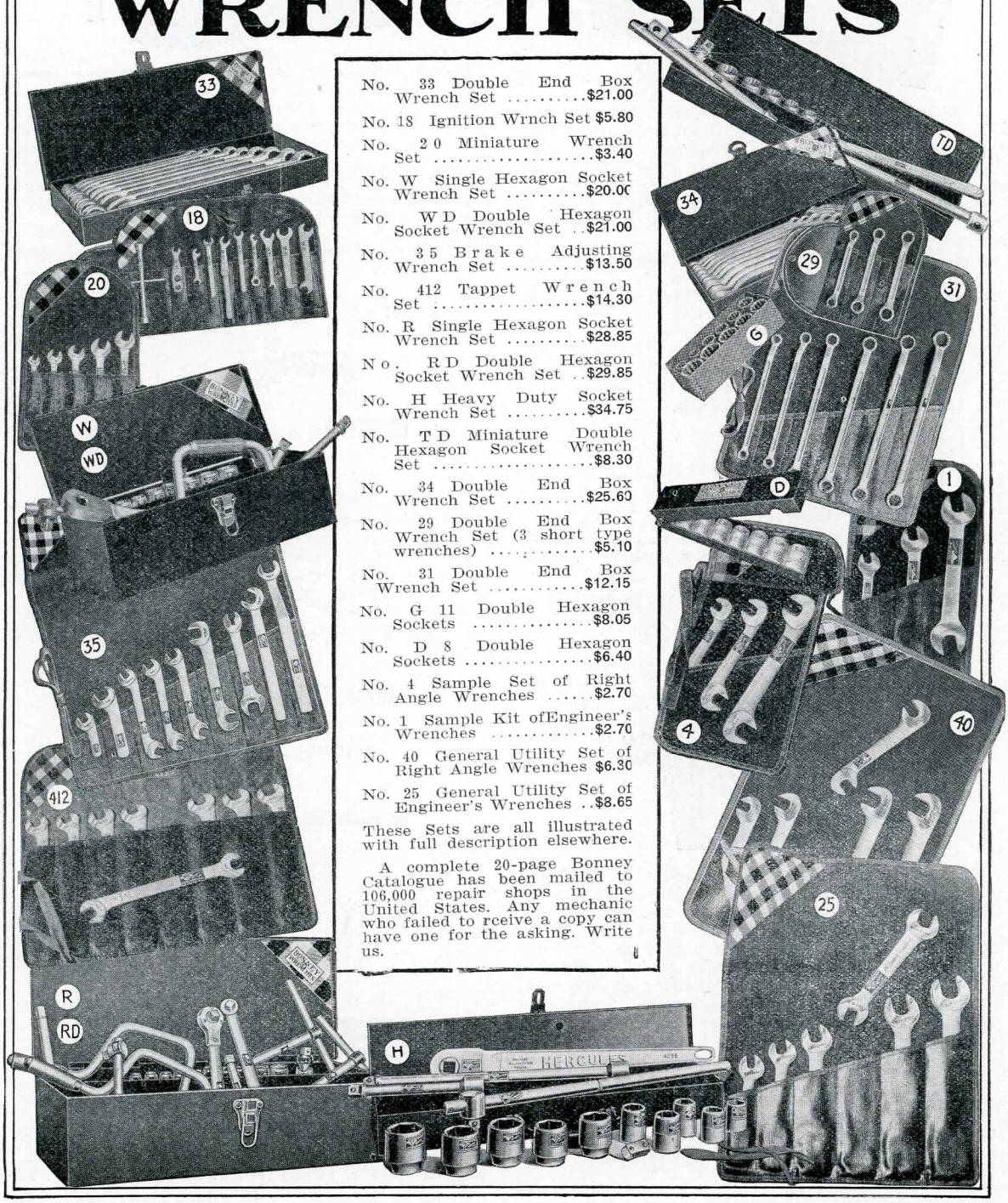
Without Pilots

No.	Capacity	Dealers Net
101	½" to 1" (inclusive)	**$2.25**
115	1" to 1½" (inclusive)	**3.00**
102	1½" to 2" (inclusive)	**3.75**

BONNEY

*CV (Chrome-Vanadium)

WRENCH SETS



No. 33 Double End Box Wrench Set $21.00

No. 18 Ignition Wrnch Set $5.80

No. 20 Miniature Wrench Set $3.40

No. W Single Hexagon Socket Wrench Set $20.00

No. WD Double Hexagon Socket Wrench Set ..$21.00

No. 35 Brake Adjusting Wrench Set $13.50

No. 412 Tappet Wrench Set $14.30

No. R Single Hexagon Socket Wrench Set $28.85

No. RD Double Hexagon Socket Wrench Set ..$29.85

No. H Heavy Duty Socket Wrench Set $34.75

No. TD Miniature Double Hexagon Socket Wrench Set $8.30

No. 34 Double End Box Wrench Set $25.60

No. 29 Double End Box Wrench Set (3 short type wrenches) $5.10

No. 31 Double End Box Wrench Set $12.15

No. G 11 Double Hexagon Sockets $8.05

No. D 8 Double Hexagon Sockets $6.40

No. 4 Sample Set of Right Angle Wrenches $2.70

No. 1 Sample Kit ofEngineer's Wrenches $2.70

No. 40 General Utility Set of Right Angle Wrenches $6.30

No. 25 General Utility Set of Engineer's Wrenches ..$8.65

These Sets are all illustrated with full description elsewhere.

A complete 20-page Bonney Catalogue has been mailed to 106,000 repair shops in the United States. Any mechanic who failed to rceive a copy can have one for the asking. Write us.

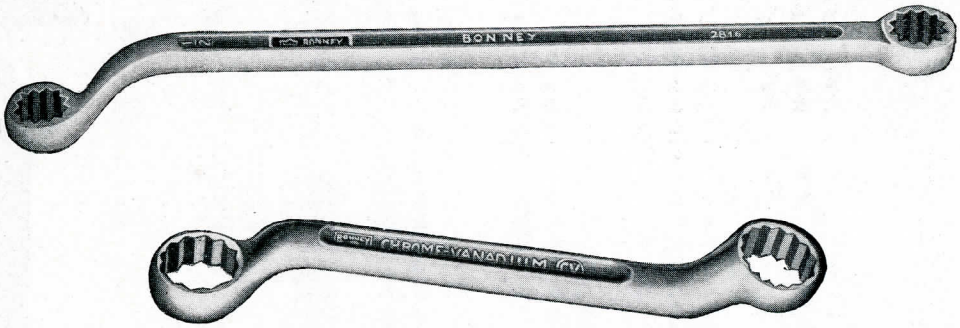
BONNEY *CV (Chrome Vanadium) WRENCHES

All of them covered by the Bonney Guarantee "to strip the the thread or break the bolt without damage to the wrench."

TAPPET WRENCHES

The 8-inch length allows working clear of motor when it is hot and the angle of heads allows reaching into inaccessible places. Two can be worked like scissors in one hand while third is used in other hand. Openings ⅜" to 1" inclusive.

Sold individually or in set. (See Set No. 412).



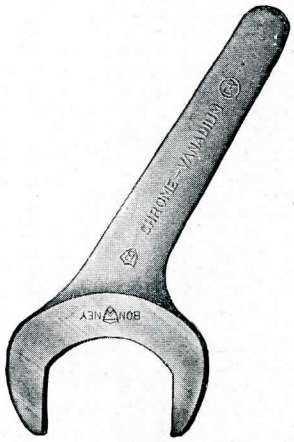
DOUBLE END BOX WRENCHES

Long Type—same openings both ends, ($\frac{7}{16}$" to $\frac{15}{16}$" inclusive).
Short Type—different openings each end, (⅜" to 1⅛" inclusive).
Sold individually or in sets. (See Sets No. 29, No. 31, No. 33, No. 34).

SOCKETS

Single Hexagon—Opening $\frac{7}{16}$" to 1". Double Hexagon—Opening $\frac{7}{16}$" to $\frac{15}{16}$" or Square Opening—Openings ⅜" to 1", with a complete line of handles to be used with sockets.

Sold individually or in quite a variety of set. (See Sets Nos. R, No. RD, No. W, No. WD, No. H, No. D, No. TD, and No. G).



WATER PUMP PACKING NUT WRENCH

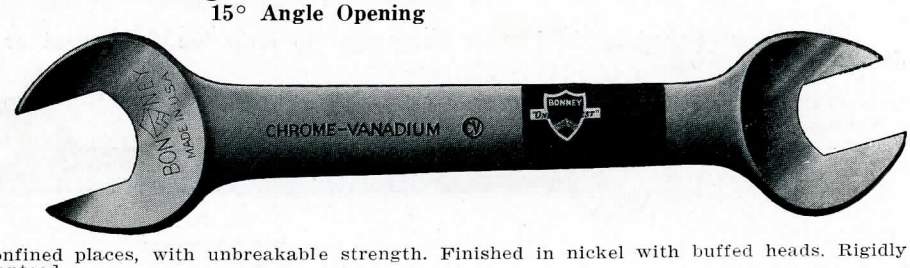
Designed especially for water pump packing nut adjustment—available for practically any make or model car. Thin enough to handle work easily and short enough to fit into the narrow space in which pump is located. Openings ¾" to 2½" inclusive.

18 of the most popular of the Bonney *CV (Chrome Vanadium Wrench Sets are shown on opposite side of page.

BONNEY Chrome-"CV"Vanadium WRENCHES

Engineers' Wrenches

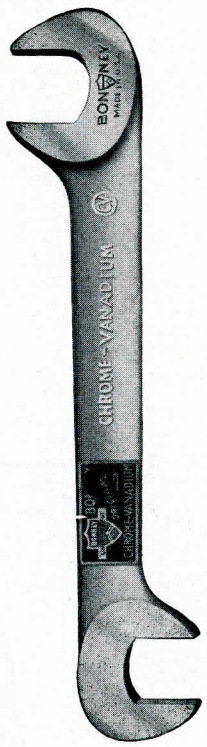
15° Angle Opening



Bonney 'CV'* Chrome Vanadium Engineers' Wrenches are thinner, longer, and stronger than Carbon Steel Wrenches of the same opening. The use of this alloy steel allows refinement of design both in shape and thickness of head. The thin, pear-shaped head made possible by the use of alloy steel makes this line of wrenches lighter, better balanced, and more serviceable in confined places, with unbreakable strength. Finished in nickel with buffed heads. Rigidly inspected, tested and guaranteed.

No. Engineers Wrench	No. Right Angle Wrench	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Openings Milled	Extreme Length	Thickness of Head	Price Each
1020		& 1/8	& 1/8		1/4 & 5/16	3	5/32	$.55
1721	2721	1/8 &	1/8 & 3/16	1/4	5/16 & 3/8	3 7/8	3/16	
1021	2021	1/8 & 3/16	1/8 &		5/16 & 13/32	3 7/8	3/16	.60
1722	2722	1/8 &	1/8 & 1/4	& 1/4	5/16 & 7/16	4 1/8	3/32	
1723	2723		3/16 & 1/4	& 1/4	3/8 & 7/16	4 1/8	3/32	
1022	2022	1/8 & 1/4	1/8 & 5/16	& 5/16	5/16 & 1/2	4 1/2	3/32	
1023	2023	3/16 & 1/4	& 5/16	& 5/16	13/32 & 1/2	4 1/2	3/32	.70
1723A	2723A		3/16 & 5/16	& 5/16	3/8 & 1/2	4 1/2	3/32	
1724	2724		3/16 & 3/8	& 3/8	3/8 & 9/16	5 1/2	15/64	
1024	2024	3/16 & 5/16			13/32 & 12/32	5 1/2	15/64	
1725	2725	& 1/4	1/4 & 5/16	1/4 & 5/16	7/16 & 1/2	5 1/2	15/64	.85
1725A	2725A	&	1/4 & 3/8	1/4 & 3/8	7/16 & 9/16	5 1/2	15/64	
1725B	2725B	1/4 &	5/16 & 3/8	5/16 & 3/8	1/2 & 9/16	5 1/2	15/64	
1025	2025	1/4 & 5/16	5/16 &	5/16 &	1/2 & 12/32	5 1/2	15/64	
1726	2726	1/4 &	5/16 & 7/16	5/16 & 7/16	1/2 & 5/8	6 1/2	9/32	
1026	2026	1/4 & 3/8	5/16 &	5/16 &	1/2 & 11/16	6 1/2	9/32	
1727	2727		3/8 & 7/16	3/8 & 7/16	9/16 & 5/8	6 1/2	9/32	1.00
1027	2027	5/16 & 3/8			19/32 & 11/16	6 1/2	9/32	
1027C	2027C	& 3/8	3/8 &	3/8 &	9/16 & 11/16	6 1/2	9/32	
1028	2028	5/16 & 7/16			19/32 & 25/32	7 1/2	5/16	
1728	2728		3/8 & 1/2	3/8 & 1/2	9/16 & 3/4	7 1/2	5/16	
1028S	2028S	& 7/16	7/16 &	7/16 &	5/8 & 22/32	7 1/2	5/16	
1729	2729		7/16 & 1/2	7/16 & 1/2	5/8 & 3/4	7 1/2	5/16	1.25
1029	2029	3/8 & 7/16			11/16 & 22/32	7 1/2	5/16	
1730	2730		7/16 & 9/16	7/16 &	5/8 & 13/16	7 1/2	5/16	
1030	2030	3/8 & 1/2	& 5/8	& 9/16	11/16 & 7/8	7 1/2	5/16	
1731	2731		1/2 & 9/16	1/2 &	3/4 & 13/16	9	3/8	
1731A	2731A	& 1/2	1/2 & 5/8	1/2 & 9/16	3/4 & 7/8	9	3/8	
1031	2031	7/16 & 1/2	& 5/8	& 9/16	22/32 & 7/8	9	3/8	
1731B	2731B	& 1/2	9/16 & 5/8	& 9/16	13/16 & 7/8	9	3/8	
1732	2732		1/2 & 3/4	1/2 & 11/16	3/4 &1	9	3/8	1.70
1032	2032	7/16 & 9/16			25/32 & 31/32	9	3/8	
1732A	2732A		9/16 & 3/4		13/16 &1	9	3/8	
1033A	2033A	1/2 &	5/8 &	9/16 & 5/8	7/8 & 15/16	9	3/8	
1033	2033	1/2 & 9/16	5/8 &	9/16 &	7/8 & 31/32	9	3/8	
1733		1/2 &	5/8 & 3/4	9/16 & 11/16	7/8 &1	10 1/2	15/32	
1033C		&	& 3/4	5/8 & 11/16	15/16 &1	10 1/2	15/32	
1034		1/2 & 5/8	5/8 &	9/16 & 3/4	7/8 &1 1/16	10 1/2	15/32	2.25
1734		1/2 &	5/8 & 7/8	9/16 &	7/8 &1 1/8	10 1/2	15/32	
1034A		& 5/8		5/8 & 3/4	15/16 &1 1/16	10 1/2	15/32	
1035		9/16 & 5/8		& 3/4	31/32 &1 1/16	10 1/2	15/32	
1735			3/4 & 7/8	11/16 &	1 &1 1/8	12	17/32	
1036		9/16 & 3/4	&1	& 7/8	31/32 &1 1/4	12	17/32	
1736		& 3/4	3/4 &1	11/16 & 7/8	1 &1 1/4	12	17/32	3.15
1037		5/8 & 3/4	&1	3/4 & 7/8	1 1/16 &1 1/4	12	17/32	
1737		& 3/4	7/8 &1	& 7/8	1 1/8 &1 1/4	12	17/32	
1038		5/8 & 7/8		3/4 &1	1 1/16 &1 7/16	13 1/2	11/16	
1738			7/8 &1 1/8		1 1/8 &1 3/8	13 1/2	11/16	
1739		3/4 & 1	&1 1/8	7/8 &	1 1/4 &1 3/8	13 1/2	11/16	
1039		3/4 & 7/8 1	&	7/8 &1	1 1/4 &1 7/16	13 1/2	11/16	5.00
1739A		3/4 & 1	&1 1/4	7/8 &	1 1/4 &1 1/2	13 1/2	11/16	
1739B		1 1/8	&1 1/4		1 3/8 &1 1/2	13 1/2	11/16	
1040		3/4 &1 1	&1 3/8	7/8 &1 1/8	1 1/4 &1 5/8	13 1/2	11/16	
1041		1/8 &1	&1 3/8 1	&1 1/8	1 7/16 &1 5/8	15 1/2	13/16	9.00

Right-Angle Wrenches



Bonney 'CV'* Chrome Vanadium Right Angle Wrenches are designed for work in close quarters where it is impossible to use a 15° or 22½° opening wrench. Such places are found in work on brakes, manifolds, cylinder-heads, etc. The heads are pear shaped as in the Engineering type of 'CV'* Wrench and the handles are shaped to give the operator a comfortable grip. Finished in nickel with buffed heads. Rigidly inspected, tested, and guaranteed.

Banney 'CV'* (Chrome-Vanadium) Wrenches are guaranteed to strip the thread or break the bolt without damage to the wrench.

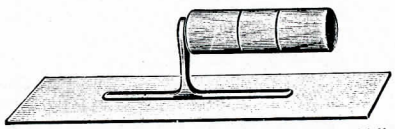
We will replace, free of charge, any Bonney 'CV'* wrench that does not live up to this guarantee.

'CV'* is a Bonney trademark registered in the U. S. Pattent Office. Chrome Vanadium registered August 11th, 1925.

TROWELS

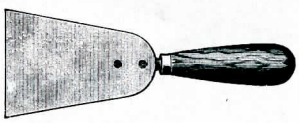
Brick—10x4" Blade.
List Price, Each .....$ .25

Pointing—5½x2⅜" Blade.
List Price, Each .....$ .15

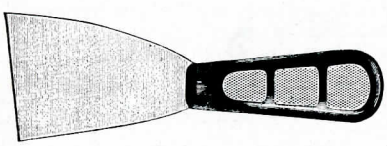


Plastering—Malleable Iron Shank 10x4½" Blade.
List Price, Each .....$ .30

SCRAPERS

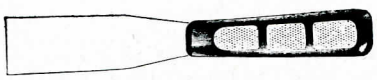


No. 100 Wall Scraper.
Blade is 3½".
List Price, Each .....$ .15



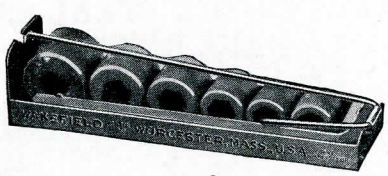
No. 200 Paint Scraper (Shock Proof)
Blade is 2⅝"
List Price, Each .....$ .15

PUTTY KNIFE



No. 300 Putty Knife (Shock Proof)
Blade is 1$\frac{3}{16}$".
List Price, Each .....$ .15

MASTER SOCKET SET NO. 2



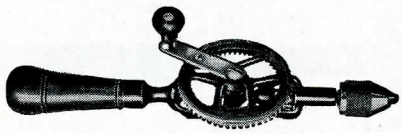
NO. 2

No. 2
(Patent Applied for)

Set No. 2, put up in our high-grade, richly enameled black steel case, contains 6 sockets and an L handle, which is 7½" long. Weight each set, 1 lb. 2 oz.
Net Price, per set .....$ .39

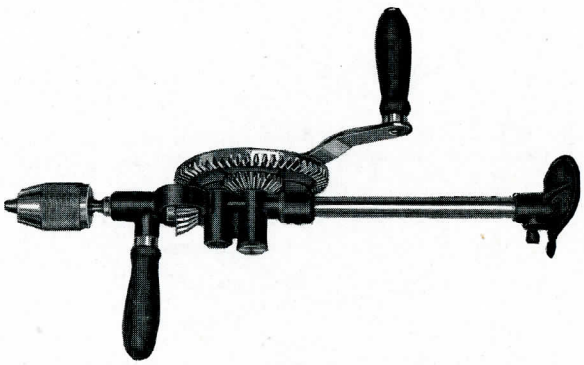
SPECIAL HOUSEHOLD TOOLS

NO. 406 HAND DRILL



This hand drill has a Black Japaned malleable frame and bright red large gear wheel with cut teeth to form a perfect mesh. One-fourth inch capacity chuck and hollow mahogany finished handle to hold the small drills.
Price, each, three or more $1.05
Price, each, less than three 1.20

BREAST DRILL

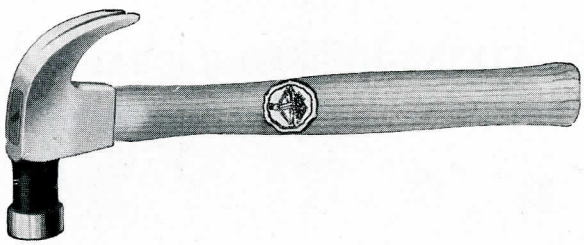


Two-Speed Ball-Bearing—No. 100

Gear Ratio: Even and 3 to 1, easily changed.
Three Jaw Chuck: With 0 to ½ inch capacity.
Spindle: Runs in hardened steel cone bearing.
Breast Plate: Is adjustable. Will hold round shank drills accurately.
Finish: All parts highly enameled and nickel-plated and polished.
Weight: 5½ pounds.
Length: 16 inches.
Packed: Partially disassembled and packed in telescope cardboard box. Shipped in uniform packing cases holding 12 breast drills.
Price, each, three or more $2.10
Price, each, less than three 2.30

NO. 332 CLAW HAMMER

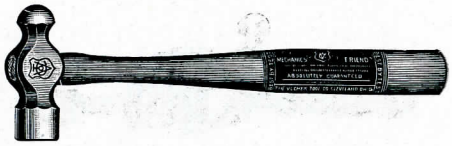
(Drop Forged)



The above is our 16 oz. 11½ adze eye bell faced Claw Hammer with brown waxed close-grained ash handle. Both claw and face are polished.
Price, each, three or more .....$ .32
Price, each, less than three ..... .37

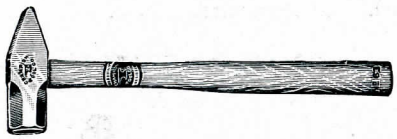
SPECIAL HOUSEHOLD TOOLS

NO. 12 BALL PEIN HAMMER



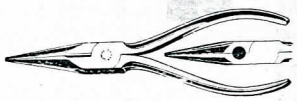
Drop Forged, 12 oz. Ball Pein Hammer
Price, each, three or more .....$ .26
Price, each, less than three ..... .30

TIRE HAMMER



A handy hammer in a tire shop or garage. A ready seller. We have a steady demand for this popular item.
Weight, 2½ lbs., Black finish, Price, each .....$ .68
Price in one-half dozen lots, per dozen 7.50

NO. 346 LONG NOSE PLIER



6-Inch

Forged lap joint long needle nosed plier for reaching "out of the way" places. Both the needle nose and the cutting jaws have an exceptionally good temper in them as well as the handle to give long life to the tool. This plier is made in two finishes (No. 346) full polished head with gun metal handles. Packed one dozen to the carton.
Net price, each .....$ .54
Net price, per dozen 5.85

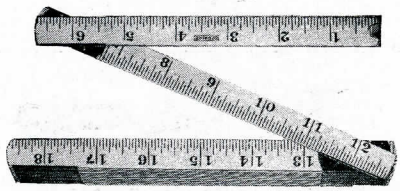
MASTER COMBINATION PLIERS

Black
Size 6-Inch
Price each, six or more .....$ .14
Price each, less than six ..... .16
A Real Seller

ATKINS HOUSEHOLD SAWS

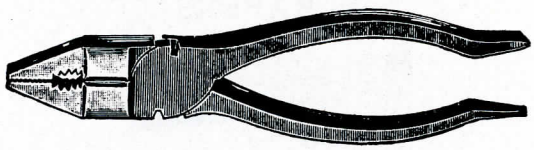
Net Price, Each
No. 59. Special Steel, 26-inch—8, 9 or 10 Point Hand Saw $1.65
No. 59. Special Steel, 26-inch 6 Point Rip Saw.. 1.65
No. 59. Special Steel, 20-inch 9 or 10 Point Panel Saw 1.40

NO. 327 YELLOW FOLDING RULE



Perfect measure regularly graduated in 16th inches with finely varnished canary yellow finish. Highly tempered blued steel spring in concealed joint holds section in any position placed.
Price each, three or more .....$ .28
Price each, less than three ..... .35

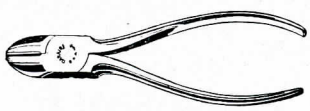
NO. 306 COMBINATION GAS AND SIDE CUTTING PLIER



Size 8-Inch

A low priced household forged plier having the ting plier. This plier has the full polished head and gas jaw principle combined with the regular side cutting jaws and enameled black handles.
Price, each, six or more .....$ .49
Price, each, less than six ..... .55

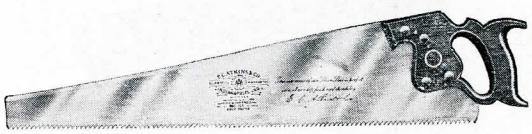
NO. 357 DIAGONAL PLIER



6-Inch

A well made strong cutting plier with the popular oval faced cutting jaws, containing a special temper. The handles have the proper temper with the necessary spring to them. This plier is made in two finishes, and the full polished head with gunmetal handles (No. 357). Packed one dozen to the carton.
Net price, each .....$ .58
Net price, per dozen $6.30

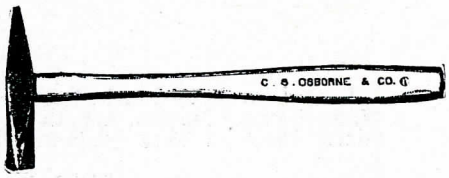
ATKINS SILVER STEEL SKEW BACK SAWS



No. 51. Hand Saw 8, 9, or 10 Point, 26-Inch. Net price, each $2.75
No. 51. Rip Saw 6 Point, 26-Inch. Net price, each 2.75
No. 51. Panel Saw 9, 10 Point, 20-Inch. Net price, each 2.25

TRIMMERS' AND UPHOLSTERERS' TOOLS — OSBORNE MAKE

NO. 57. RIVETING HAMMERS — STEEL FORGED

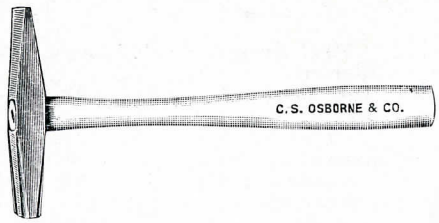


Made with White Hickory Handles

Size No.	Length of Head	Diam. of Face	Weight Each	List Price Each
No. 57—No. 1	4″	½″	6 oz.	**$1.20**
No. 57—No. 2	4½″	9/16″	8 oz.	**1.40**
No. 57—No. 3	4½″	⅝″	11 oz.	**1.60**

We can also furnish, by mail, from factory in following weights—3 oz., 5 oz., 14 oz., 19 oz., and 23 oz.

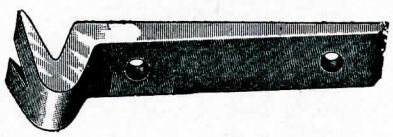
NO. 220 TRIMMERS' HAMMERS



A very popular Hammer used exclusively by Trimmers. Drop Forged Steel Head and White Hickory Handle. This Hammer can be furnished with Claw attached if so required.

	Length of Head	Diam. of Face	Weight Each	List Price Each
No. 220	5″	⅝″	10 oz.	**$1.00**
No. 220½	With Claw—Same Size No. 220			**1.50**

NO. 82 CLAW FOR HAMMER HANDLES

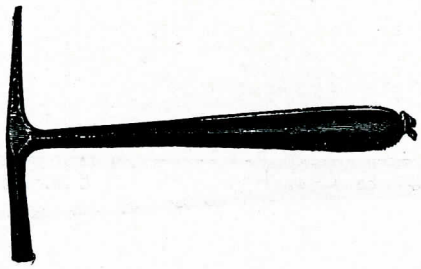


Forged Steel—carefully hardened and tempered. Polished complete. Weight, per dozen, 12 oz.

List Price, Each

No. 82 Claws ..... **$ .50**

NO. 58 AND 58½ FRENCH TRIMMERS' HAMMERS



Made with Oval Rosewood Handles, riveted through the steel shank. Head and Handle are Steel Forged—one piece. Claw welded to end of handle.

	Length of Head	Diam. of Face	Weight Each	List Price Each
No. 58	7″	⅝″	17 oz.	**$4.00**
No. 58½	6″	½″	11 oz.	**4.00**

NO. 59 TRIMMERS' HAMMERS

Forged Steel Head and Steel Strapped White Hickory Handle. Claw attached to the end of handle.

	Length of Head	Diam. of Face	Weight Each	List Price Each
No. 59	7″	9/16″	10 oz.	**$3.00**

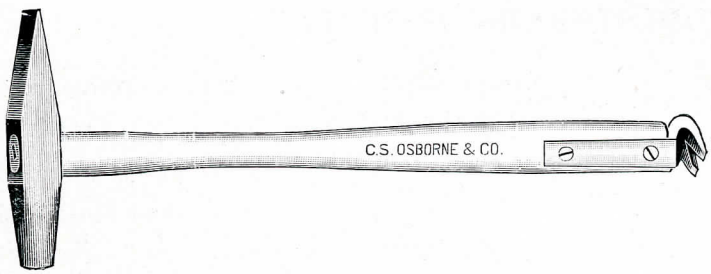
NO. 222 MAGNETIC HAMMERS

Double face; small face 5/16 inch, large face ½ inch. Length of Head, 5½. Weight, 11 oz.

List Price, Each

No. 222 Polished **$2.00**
No. 222½ Polished with Claw **2.50**
No. 222 Nickel **2.35**

NO. 57½ RIVETING HAMMERS WITH CLAW



This illustration shows the No. 57 Hammer with Claw attached.

Size No.	Length of Head	Diam. of Face	Weight Each	List Price Each
No. 57½—No. 2	4¼″	9/16″	8 oz.	**$1.90**
No. 57½—No. 3	4½″	⅝″	11 oz.	**2.00**

TRIMMERS' AND UPHOLSTERERS' TOOLS

NO. 60 UPHOLSTERERS' HAMMERS

Forged Steel Head and Steel Strapped White Hickory Handle. Length of Head, 6-inch. Diam. of Face, ½ inch. Weight, 8½ oz.

List Price, Each

No. 60 Upholsterers' Hammers **$2.15**

NO. 61 FRENCH UPHOLSTERERS' HAMMERS

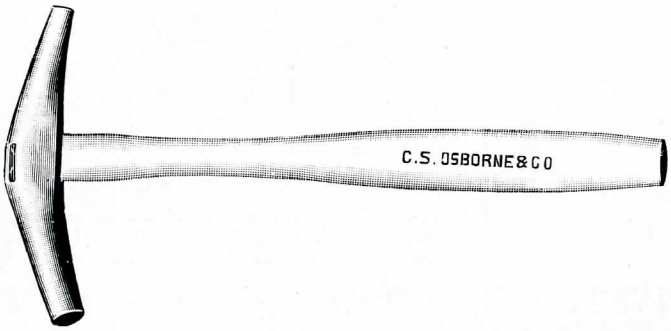
Steel Forged. Oval Rosewood Handle, Riveted.

Number	1	2	3	4	5
Size of Face, Inches	¼	⅜	7/16	½	⅝
Length of Head, Inches	5½	5⅞	6½	6¾	7
Weight, ozs.	14	14½	15	15½	16

List Price, Each

No. 61 (Any size) Upholsterers' Hammers **$3.75**

NO. 210 UPHOLSTERERS' HAMMERS

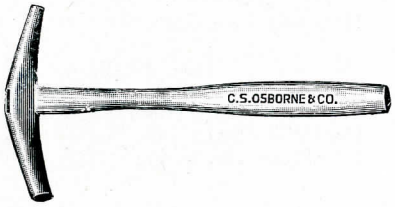


Plain Eye—White Hickory Handle. Double face; small face 5/16 inch, large face ½ inch. Length of Head, 5½-inch. Weight, 9 oz.

List Price, Each

No. 210 Upholsterers' Hammer **$1.70**

NO. 211 UPHOLSTERERS' HAMMERS



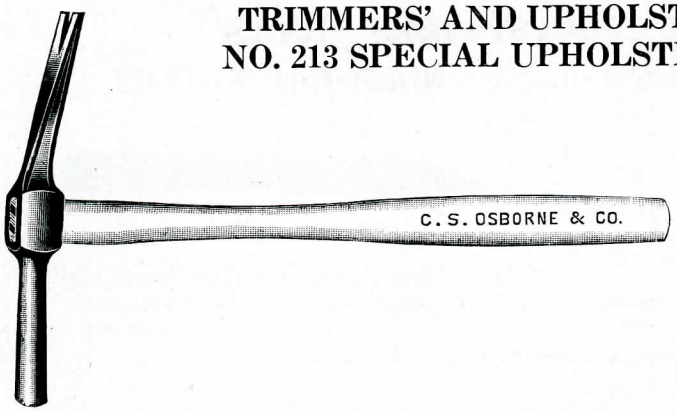
Adze Eye, White Hickory Handles. Double face; small face 5/16 inch, large face ½ inch. Length of Head, 5½-inch. Weight, 9 oz.

List Price, Each

No. 211 Upholsterers' Hammers **$2.00**

TRIMMERS' AND UPHOLSTERERS' TOOLS

NO. 213 SPECIAL UPHOLSTERERS' HAMMERS

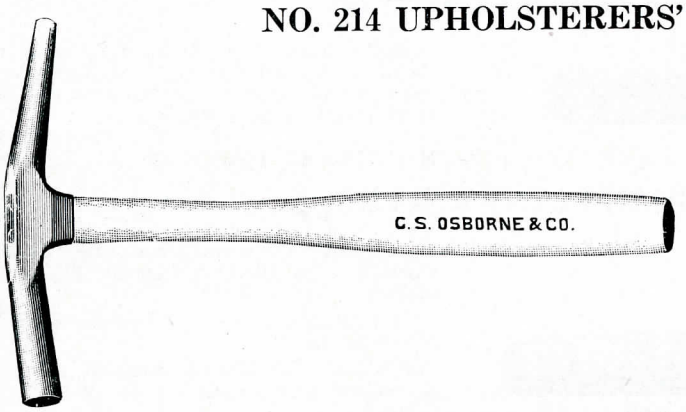


A moderate priced Hammer for general use. Steel Forged. Length of Head, 6-inch. Diam. of Face, ½ inch. Weight, 7½ oz.

List Price, Each

No. 213 Special Upholsterers' Hammer $1.00

NO. 214 UPHOLSTERERS' HAMMERS



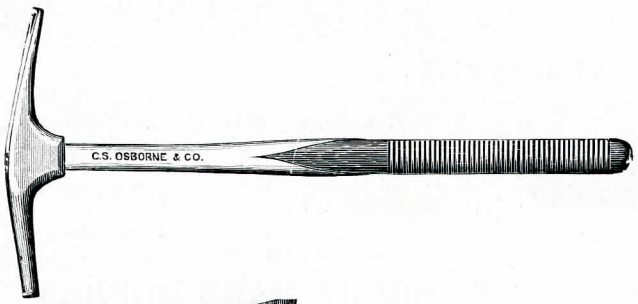
The No. 214 Double Faced Light Upholsterers' Hammer is a drop forged article not made of as fine a quality steel nor as well finished as our other Double Faced Hammers. It is, however, serviceable for general light work.

Length of Head, 5½-inch. Weight, 7 oz. Small Face, ¼ inch; Large Face, ½ inch.

List Price, Each

No. 214 Upholsterers' Hammers $1.50

NO. 62 JAHNE PATTERN UPHOLSTERERS' HAMMER



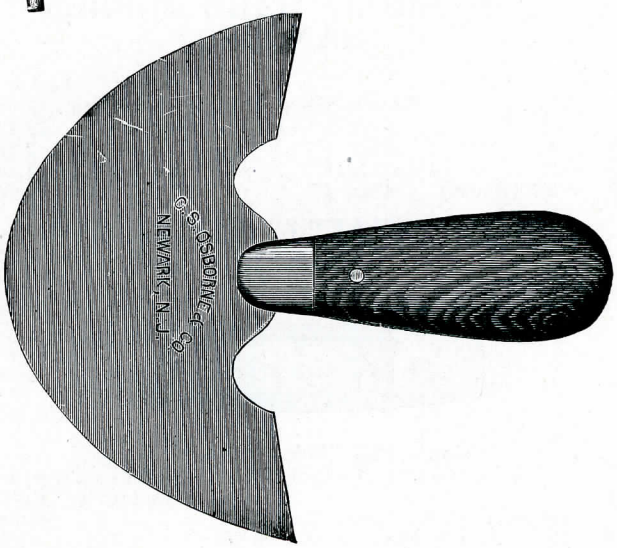
Steel Strapped Eye—Round Ribbed Hickory Handle.

No.	3	4	5	6	7	8	9	10
Size of Face, Inches	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8

Length of Head, 5½ inches. Weight, 11 ozs.

List Price, Each

No. 62 (Any size) Upholsterers' Hammers $3.00



NO. 70 ROUND KNIVES

Made of the best Sheffield Steel. Oval Rosewood Handle and Brass Ferrule. The Blade is highly polished.

This knife is a very fine article, known the world over for its excellent quality. Made in the following sizes:

List Price, Each

No. 70 Round Knife, 5-inch $2.75

No. 70 Round Knife, 6-inch 3.15

No. 70 Round Knife, 6½-inch 3.65

No. 70 Round Knife, 6¾-inch 4.50

TRIMMERS' AND UPHOLSTERERS' TOOLS

NO. 76 SQUARE POINT KNIVES

A fine quality Trimmers' Knife, Round Rosewood Handle and Brass Ferrule. Blade measures ¾ inch wide by 3¾ long.

We also make a second quality, but nevertheless durable Knife with White Maple Handle. Blade measures ⅝ inch wide by 3⅞ long.

List Price, Each

No. 76 Square Point Knife .....$ .50

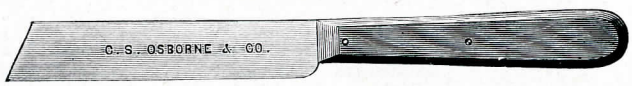
NO. 79 CAP KNIVES

A fine quality sharp point Knife made similar to the No. 76. Blade measures ⅝ x 3⅝ inches.

List Price, Each

No. 79 Cap Knife .....$ .50

NO. 77 SQUARE POINT KNIVES

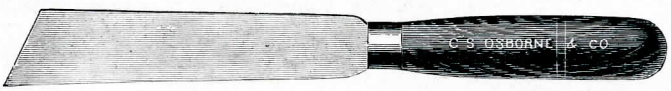


Made with flat beveled Rosewood Handle, riveted through a flat steel shank which extends half way to end of handle. Blades ¾ x 3¾ inches.

List Price, Each

No. 77 Square Point Knife $1.00

NO. 78 BROAD POINT KNIVES



This knife is made with a larger blade than No. 76. Blade measures 1⅛ x 5 inches.

The handle is Round Rosewood with Brass Ferrule.

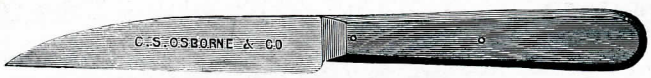
We can also furnish the flat riveted Rosewood Handle similar to No. 77 if desired.

List Price, Each

No. 78 Round Handle Knife .....$ .75

No. 78 Flat Handle Knife 1.20

NO. 80 CAP KNIVES



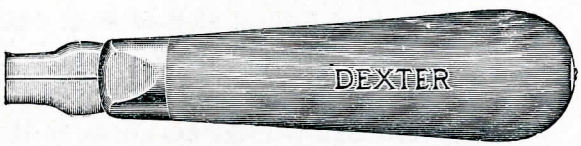
This sharp joint Knife is made similar to the No. 77. The Blade measures ⅝ x 3¾ inches.

All straight Knives are made of finest Sheffeld Steel.

List Price, Each

No. 80 Cap Knives $1.00

DEXTER IMPERIAL TRIMMERS' KNIFE HANDLES



Stained Hardwood or Rubber Handle

"Imperial" Stained Hardwood Handles

Nos.	Handle Sizes	Holds Blade Nos.	List Price Each
00	3½x⅞"	00	$1.60
1	4¼x⅞"	1	1.60
2S (Short)	4¼x 1"	2	1.60
2M	4½x 1"	2	1.60

"IMPERIAL" HARD RUBBER HANDLES

Nos.	Handle Sizes	Holds Blade Nos.	List Price Each
00	3¾x⅞"	00	$2.20
1	4¼x 1"	0 and 1	2.20
2	4⅜x1-1/16"	2	2.20
2S (Short)	4¼x 1"	2	2.20

"IMPERIAL" CLOTH BLADE HANDLE

Single End Blade Handle, Polished

4¼ inches long. Weight, 3¾ ozs. Blades 6x$\frac{9}{16}$ inch.

List Price, Each

Imperial Cloth Blade Handles $1.80

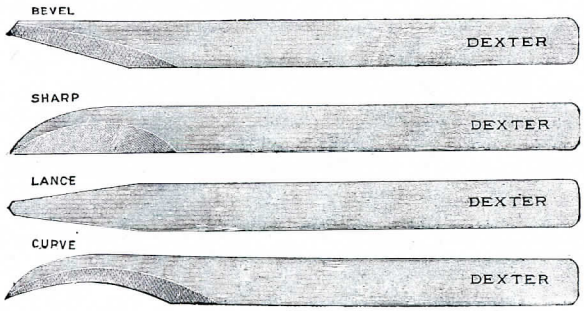
Cloth Blades Bevel Points 6x$\frac{9}{16}$" ..... .60

TRIMMERS' AND UPHOLSTERERS' TOOLS

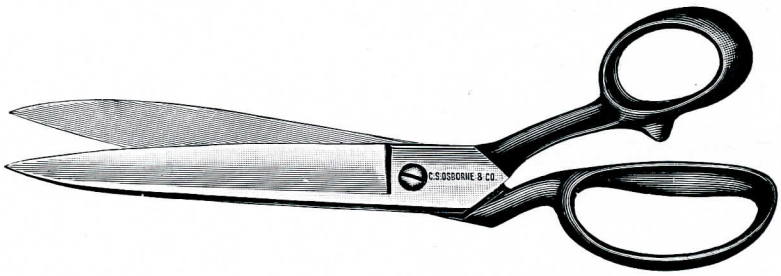
"IMPERIAL" HANDLE BLADES ONLY

Blades furnished in any style at the following prices:

	List Price, Each
No. 00 "Imperial" Blades, 4 x 5/32"	$ .28
No. 0 "Imperial" Blades, 4¾ x 5/32"	.28
No. 1 "Imperial" Blades, 4¾ x 5/16"	.28
No. 2 "Imperial" Blades, 4¾ x ⅜"	.28



NO. 164 BENT TRIMMERS' SHEARS



Forged Steel. Japanned Handles—Nickeled Blades.
Bent Trimmers' Shears made as follows:

	Full Length	Length of Cut	Weight	List Price, Each
No. 164 Shears	8½"	4"	6½ oz.	**$2.05**
No. 164 Shears	10"	4⅞"	11 oz.	**2.85**
No. 164 Shears	12"	6¼"	18 oz.	**3.45**
No. 164 Shears	13"	6¾"	23½ oz.	**3.75**

Left Hand Shears

	Full Length	Length of Cut	Weight	List Price, Each
No. 164 Shears	10"	4⅞"	11 oz.	**$3.45**
No. 164 Shears	11"	5⅜"	15 oz.	**3.75**
No. 164 Shears	12"	6¼"	18 oz.	**3.90**

NO. 164½ STRAIGHT TRIMMERS' SHEARS

Forged Steel. Japanned Handles—Nickeled Blades.
Straight Trimmers' Shears made as follows:

	Full Length	Length of Cut	Weight	List Price, Each
No. 164½ Shears	8½"	4"	6½ oz.	**$1.80**
No. 164½ Shears	10"	4⅞"	11 oz.	**2.65**
No. 164½ Shears	12"	6⅛"	18 oz.	**3.25**

Left Hand Shears

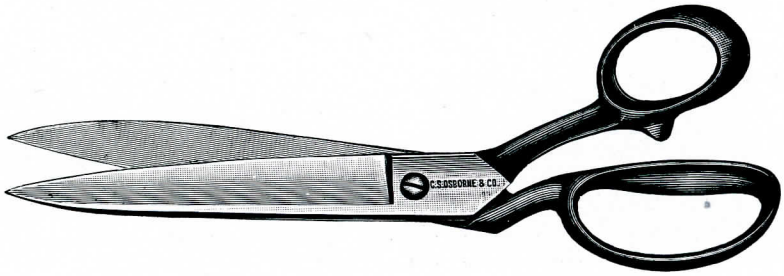
	Full Length	Length of Cut	Weight	List Price, Each
No. 164½ Shears	8½"	4"	6½ oz.	**$2.05**
No. 164½ Shears	10"	4⅞"	11 oz.	**2.95**

HEINISCH NO. 157 TRIMMING SNIPS

	Full Length	Length of Cut	Weight	List Price Each
No. 157 Snips	8"	2½"	6 oz.	**$1.60**

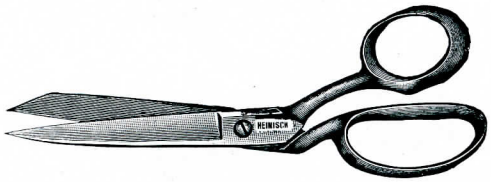
TRIMMERS' AND UPHOLSTERERS' TOOLS

OSBORNE NO. 1 TRIMMING SNIPS



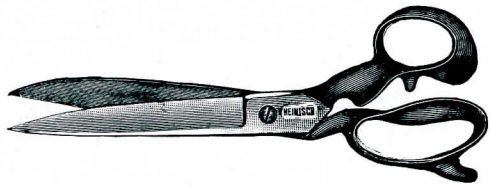
	Full Length	Length of Cut	Weight	List Price Each
No. 1 Snips	8″	2½″	6 oz.	$1.80

HEINISCH NO. 211 BENT TRIMMERS' SHEARS



	Full Length	Length of Cut	Weight	List Price Each
No. 211 Shears	12″	6¼″	18 oz.	$3.25
No. 211 Shears	13″	6¾″	23 oz.	3.50

HEINISCH NO. 2½ TAILORS' SHEARS



	Full Length	Length of Cut	Weight	List Price Each
No. 2½ Shears	12″	6″	28 oz.	$6.60

TRIMMERS' RULES
NO. 160 RULES

	List Price, Each
No. 160C—3-foot long, Graduation 8th only	$1.05
No. 160B—3-foot long, Graduation 8ths and 16ths	1.20
No. 160B—4-foot long, Graduation 8ths and 16ths	1.85

No. 160C rule has both sides in eights.

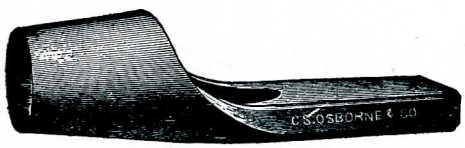
No. 160B rules are graduated one in eights; the other side in sixteenths.

NO. 147 ROUND PUNCHES

These Round Drive Punches are forged from the best grade of Tool Steel, carefully hardened and tempered. Made with taper clearance, polished complete.

Size No.	Diam. of Cut	List Price, Each
No. 147 — 0	5/64″	$ .60
No. 147 — 1	7/64″	.45
No. 147 — 2	⅛″	.45
No. 147 — 3	9/64″	.45
No. 147 — 4	5/32″	.45
No. 147 — 5	11/64″	.45
No. 147 — 6	3/16″	.45
No. 147 — 7	7/32″	.50
No. 147 — 8	¼″	.50
No. 147 — 9	9/32″	.50
No. 147 — 10	5/16″	.50
No. 147 — 11	23/64″	.60
No. 147 — 12	13/32″	.60
No. 147 — 13	7/16″	.85
No. 147 — 14	15/32″	.85
No. 147 — 15	33/64″	1.00
No. 147 — 16	9/16″	1.00

NO. 148 ROUND PUNCHES

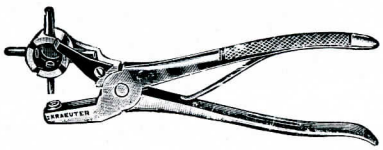


When larger size Punches than No. 147 are required, this fine quality Hand Forged Punch recommended for sizes ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼-inch Diameter.

	Diam. of Cut	List Price, Each
No. 148	½″	$1.20
No. 148	⅝″	1.90
No. 148	¾″	2.00
No. 148	⅞″	2.20
No. 148	1″	2.40
No. 148	1⅛″	2.80
No. 148	1¼″	3.20

TRIMMERS' AND UPHOLSTERERS' TOOLS

NO. 155 REVOLVING PUNCHES WITH SCREW TUBES



Forged Steel. The best Revolving Punch made. Screw Tubes only. Polished Complete.

The side spring adjusts tubes to cut on centre of copper anvil.

4-Tube Punch made with tubes 3, 4, 5, 6.

6-Tube Punch made with tubes 1, 2, 3, 4, 5, 6.

	List Price, Each
No. 155—4-Tube Punch	$2.35
No. 155—6-Tube Punch	2.70
Extra Screw Tubes only	.35

NO. 122 CLAW TOOLS

This tool is especially adapted for lifting tacks and small nails. It has excellent leverage and made strong enough to stand very rough usage. The Claw is Drop Forged Steel. The handle Rosewood. Length, 6½ in.; Weight, 3 oz.

We also make a less expensive tool same style but lighter weight and black handle, No. 122½. Length, 6 in.; Weight, 2 oz.

No. 122 Claw Tool, List price, each ..... $ .75
No. 122½ Claw Tool, List price, each ..... .50

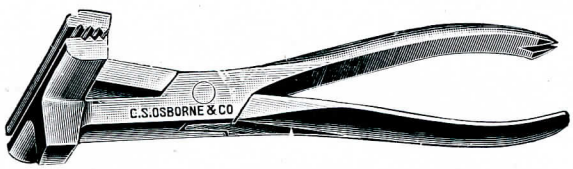
NO. 404 RIPPING TOOL

Ripping Tool has a Hand Forged Steel Blade, chisel edge with White Hickory Handle and two heavy iron ferrules—Japanned.

Length, 8¼ in.; Weight, 5 oz. Width of edge ½ in.

No. 404 Ripping Tool, List price, each ..... $ .80

NO. 250 WEBBING PLIERS

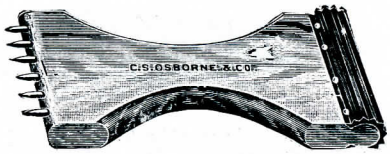


This Plier is made with Hammer Jaw; the hammer acts as a lever if a strong pull is required. This is an excellent tool for stretching fabric and canvas. It can also be used as a hammer. Full polished.

Length, 8¾ inches; Width of Jaw, 3½ inches. Weight, 1 lb., 2 oz. each.

No. 250 Webbing Pliers, List price, each $2.70

NO. 254 WEBBING STRETCHER



No. 254 Stretcher is Plain Maple with one row 6 Steel Teeth. Weight, 6½ oz.; Length, 7½ in.; Width, 3⅜ in.

No. 254 Webbing Stretcher, List price, each..... $ .70

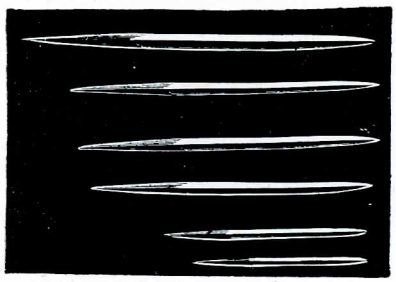
NO. 3 ROUND AWLS — SQUARE SHOULDER

The shouldered Round Awl is probably the most popular Awl we manufacture. It is made in two styles, one with the tang securely driven into the handle and the other with the tang extending through the entire length of the handle and riveted. The handle is Round Rosewood with Brass Ferrule. The blade is Forged Steel and nicely polished.

Length of Blade, 4 in.; Length over all, 8 in.

No. 3 Round Awl, List price, each ..... $ .70
No. 3 Round Awl, Riveted, List price, each ..... .95

AWLS



No. 43. 1¾" long	No. 49. 2⅞" long
No. 44. 2" long	No. 50. 3" long
No. 45. 2¼" long	No. 51. 3⅛" long
No. 46. 2½" long	No. 52. 3¼" long
No. 47. 2⅝" long	No. 43 to 48, assorted
No. 48. 2¾" long	(1¾" to 2¾")

"Nichol's" Drop Forged Steel Awls, highly polished—uniform in size.

	List Price, Per Doz.
No. 43, 44, 45, 46 Awls	$ .75
No. 47, 48 Awls	.75
No. 49 Awl	.80
No. 50 Awl	.90
No. 51 Awl	.95
No. 52 Awl	1.00
No.'s 43 to 48 Assorted	.75

TRIMMERS' AND UPHOLSTERERS' TOOLS

NO. 140½ FLAT AWL HAFTS

This flat Awl Haft is neatly finished and made to fit the palm comfortably. It has a long taper Brass Ferrule, driven tightly and pricked so that it will not come off. Black finish.

No. 140½ Flat Awl Hafts, List price, each .....$ .15

NO. 118 TRIMMERS' STUFFING IRONS

A Stuffing Iron made especially for the Trimmer. It is Hand Forged of fine quality Steel, polished complete.

List Each

No. 118—12"x½" Trimmers' Stuffing Irons **$1.00**

Also made in 14, 16 and 18-inch and widths at the Points up to ⅝ inch at the same price.

NO. 119 FLAT STUFFING RODS

This Forged Steel Stuffing Rod is made in size 18-inch only; Width at Points ⅝ inch. It is not flexible.

No. 119 Flat Stuffing Rods, List price, each **$1.20**

NO. 191 TRIMMERS' CLIPS

These Clips are most useful in any Trim Shop. The spring is made heavy enough to prevent any possibility of the jaws slipping.

Made in Sizes 4 in. and 5 in.

List price, Per Doz.

No. 191—4 in. Trimmers' Clips **$1.35**

No. 191—5 in. Trimmers' Clips **1.60**

NO. 190 UPHOLSTERERS' PINS

Cast Steel and Tempered

No. 190—3-inch No. 17 Gauge, Small Eye. List price, per dozen .....$ .16

No. 190—3-inch No. 16 Gauge, Large Eye. List price, per dozen ..... .16

No. 190—3½-inch No. 16 Gauge, Small Eye List price, per dozen ..... .20

Packed 3 Dozen in a Box.

NO. 306 UPHOLSTERERS' REGULATORS

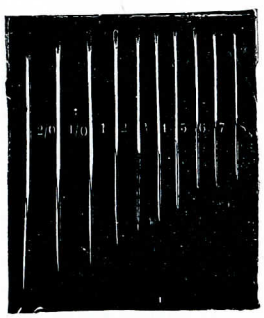
NO. 306½ UPHOLSTERERS' REGULATORS

This Regulator is forged by hand and polished complete. It is made in two weights and seven sizes as follows:

Length	6-in.	7-in.	8-in.	9-in.	10-in.	11-in.	12-in.	
No. 306 and 306½ Light	9	9	9	8	8	7	7	English Gauge
No. 306 and 306½ Heavy	6	6	5	5	5	5	5	English Gauge
No. 306 and 306½, Light. List price, each ....$	.34	$ .38	$ .42	$ .47	$ .50	$ .55	$ .60	
No. 306 and 306½, Heavy. List price, each....	.36	.40	.45	.50	.54	.58	.64	

NEEDLES

HARNESS NEEDLES



Drilled and Egg-Eye

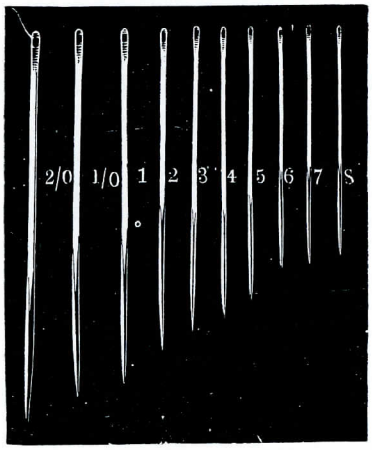
Harness Needles, Egg-Eye. Made in Sizes 1 to 7. Extra Sizes Nos. 0, 00, 000. 25 Needles to a paper. Blunt Point.

Drilled or Egg-Eye Harness Needles

	Each	Per Paper
Sizes No.'s 1 to 7.....List Price	$ .05	$ .25
Size No. 000 .....List Price	.08	.35
Size No. 00 .....List Price	.07	.30
Size No. 0 .....List Price	.05	.25
No.'s 0/4 Assorted		.22

TRIMMERS' AND UPHOLSTERERS' TOOLS

GLOVERS' NEEDLES



Actual Size

Glovers' Needles, Egg-Eye, or Drilled Eye. Made in Sizes 1 to 7. Extra Sizes Nos. 0, 00, 000. 25 Needles to a paper. These Needles are made 3 Square Sharp Point.

Drilled or Egg-Eye Glovers' Needles

	Each	Per Paper
Sizes Nos. 1 to 7 .....List Price	$ .08	$ .35
Size No. 0 .....List Price	.09	.45
Size No. 00 .....List Price	.10	.55
Size No. 000 .....List Price	.10	.55
Sizes 0/4 Assorted		.38

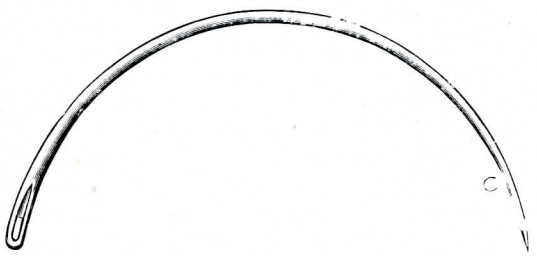
CURVED UPHOLSTERERS' NEEDLES

Table of Proper Methods for Measuring Curved Needles

The following tables of measurements applies to all Curved Upholsterers' and Leather Needles. The top line indicates the length of the Needle over all, and the second line gives the approximate distance across from the eye of the Needle to the point.

Inches Over All								
2	2½	3	3½	4	5	6	7	8
Inches from Eye to Point								
1½	1¾	2	2⅜	2¾	3⅜	4	4¾	5¼

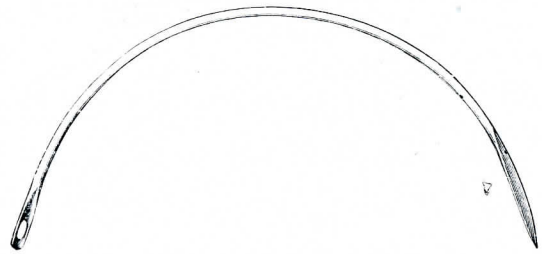
NO. 501 CURVED SINGLE ROUND POINT UPHOLSTERERS' NEEDLES



Packed 1 dozen in a Wrapper.

Sizes, inches over all	2	2½	3	3½	4	5	6	7	8	9	10
English gauge	17	17	16	16	15	15	14	14	14	14	14
List Price, Per Doz.	$.50	$.55	$.60	$.65	$.70	$.80	$.90	$1.00	$1.15	$1.30	$1.45
List Price, Each	.08	.08	.10	.10	.12	.12	.14	.14	.16	.18	.20

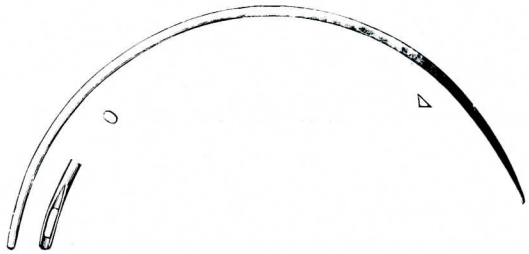
NO. 502 CURVED SINGLE 3-SQUARE POINT UPHOLSTERERS' NEEDLES



Packed 1 dozen in a Wrapper.

Sizes, inches over all	2	2½	3	3½	4	5	6	7	8
English gauge	17	17	16	16	15	15	14	14	14
List Price, Per Doz.	$ .95	$1.00	$1.05	$1.10	$1.15	$1.20	$1.30	$1.35	$1.60
List Price, Each	.12	.12	.14	.14	.16	.16	.18	.20	.22

NO. 503 CURVED LEATHER NEEDLES



Packed 1 dozen in a Wrapper.

Sizes, inches over all	2	2½	3	3½	4	5	6	7	8
English Gauge, Thick Diameter	19	18	16	16	15	15	14	12	12
English Gauge, Thin Diameter	23	21	19	19	19	19	17	14	14
List Price, Per Doz.	$1.25	$1.30	$1.40	$1.45	$1.55	$1.80	$2.10	$2.50	$2.85
List Price, Each	.16	.16	.18	.18	.20	.24	.28	.30	.32

AUTOMOBILE
TIRES
and
TUBES
For Your Convenience
Get Our
Wholesale Prices

UPHOLSTERERS' NEEDLES

NO. 504 STRAIGHT SINGLE ROUND POINT NEEDLES

Packed 1 dozen in a Wrapper.

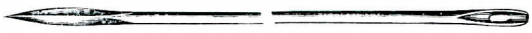
Sizes, inches long	6	7	8	9	10	12	14	16
English Gauge	14	14	14	14	13	13	13	12
List Price, Per Doz.	$ .45	$ .60	$ .65	$ .80	$ .90	$1.20	$1.30	$1.65
List Price, Each	.08	.10	.10	.12	.14	.16	.18	.22

NO. 505 STRAIGHT DOUBLE ROUND POINT NEEDLES

Packed 1 dozen in a Wrapper.

Sizes, Inches Long	6	7	8	10	12	14	16
English Gauge	14	14	14	13	13	13	12
List Price, Per Doz.	$ .65	$ .80	$ .85	$1.05	$1.25	$1.45	$1.65
List Price, Each	.10	.12	.14	.16	.18	.20	.22

NO. 506 STRAIGHT SINGLE 3-SQUARE POINT NEEDLES



Packed 1 dozen in a Wrapper.

Sizes, Inches Long	6	8	10	12	14	16
English Gauge	14	14	13	13	13	12
List Price, Per Doz.	$ .95	$1.15	$1.35	$1.55	$1.75	$1.95
List Price, Each	.12	.16	.20	.22	.24	.26

NO. 507 STRAIGHT DOUBLE 3-SQUARE POINT NEEDLES

Packed 1 dozen in a Wrapper.

Sizes, Inches Long	6	8	10	12	14	16
English Gauge	14	14	13	13	13	12
List Price, Per Doz.	$1.15	$1.35	$1.55	$1.75	$1.95	$2.15
List Price, Each	.16	.20	.22	.24	.26	.28

GAL. THIRTY-THREE

NO. 508 PACKING NEEDLES

Packed 3 Dozen in a Wrapper.

Sizes, Inches Long	7	6½	6	5½	5	4½	4	3½	3
English Gauge	7	8	9	10	10	11	12	13	14
List Price, Per Doz.	$1.05	$ .95	$ .85	$ .75	$ .65	$ .55	$ .45	$ .35	$ .35
List Price, Each	.16	.14	.14	.12	.10	.10	.08	.08	.08

SEWING MACHINE NEEDLES

We furnish all kinds of Manufacturing Machine Needles in quantities of 1 dozen or more. Send us sample of what you want or full description of machine and factory number of needles.

INDEX

A

Anvils, Garage 445
Arbors, Saw or Emery Wheel 417
Awls 475-476
Awl, Scratch 423

B

Bars, Jimmy 427
Bearing Scrapers 418
Blades, Hack Saw 443
Blades, Trimmers' Knives 473
Blow Torches 445
Body and Fender Tools 430-432-437
Body Files 403-404
Body Filler Metal 431
Body Tool, Perfection 402
Bolt Clippers 441
Bonney Wrenches 464-465-466
Braces Bit 418
Brake Lining, Countersink and Drill 449
Breast Drill 467
Bushing Extractor 463
Buster, Rivet 427

C

Calipers 418-420
Caliper, Firm Joint 423
Calipers, Hermaphordite 423
Calipers, Spring 423
Carbon Scrapers 418-427
Carborundum Stones 447
Carpenters' Square Steel 449
Center Gauge 420
Chisel and Punch Set, Vlchek 459
Chisels 437-441
Chisels, Wood 427
Chuck Motor Attachment 430
Chucks, Drill 429-430
Circle Cutter 427
Clamps "C" 402
Claw Tools 475
Cleaner File 404
Clippers, Bolt 441
Clips, Trimmers' 476
Compressor, Piston Ring 401-451
Compressor, Valve Spring 451
Coppers, Soldering 428
Countersink and Drill Brake Lining 449
Countersinks 454
Cutter, Glass 425
Cutter, Glass Circle 427
Cutters, Milling 455-456
Cutters, Pipe 454
Cutter, Tube 424
Cylinder Gauge 430

INDEX---Continued

D

Dies, Pipe 454
Dies, Rethreading 453
Dies, Screw Plate 453
Dividers, Spring 419-423
Dividers, Wing 420
Dolly Blocks 432-433-435
Drain Plug Wrenches 462
Dressers, Emery 428
Drill and Countersink Brake Lining 449
Drill, Breast 467-417
Drill Chucks 429-430
Drill, Hand 467-416
Drill Sets 417
Drills, Automatic 416

E

Emery Dressers 428
Extractor, Bushing 463
Extractors, Screw 444
Ezy Outs 444

F

Fender and Body Tools 430-432-437
Fender Tool 402
File Cleaner 404
File Handles 404
File Holders 434
File Thread 428
Files 403-405
Filler, Body Metal 431
Flaring Tool 424
Forges 401
Frame Straightener 402
Frames, Hack Saw 442
Furnace, Soldering 428

G

Gauge, Cylinder 430
Gauge, Feeler 420
Gauge, Feeler Stock 421
Gauge, Glass Windshield 426
Gauge Marking 448
Gauge, Screw Pitch 420
Gauge, Thread 420-422
Gauges, Center 420
Gauges, Thickness 420
Gear Puller 431
Glass Cutter 425
Glass Cutting Board 426
Glass Plier 425
Glass Remover 426
Glass Tapper 425
Grinder Tool 447
Grinder, Valve 450-451

H

Hack Saw Blades 443
Hack Saw Frames 442
Hammer, Ball Pein 468
Hammer, Tire 468
Hammers, all kinds 406-407
Hammers, Bumping 433-435-436
Hammers, Claw 467
Hammers, Trimmers' 469-471
Hammers, Trimmers, Magnetic 469
Hammers, Upholsterers' 469-471
Hand Drill 467
Handles, File 404
Hoists, Differential 444
Hoists, Screw 444
Hub Wrench 463

I

Inserting Tool, Piston Pin 451
Iron Levels 449

J

Jack Body, Perfection 402
Jack Body, Utilever 401
Jimmy Bar 427

K

Knife, Putty 467
Knives, Round Trimmers' 471
Knives, Trimmers' 471-472-473

L

Levels, Iron 449
Levels, Wood 448
Lifter, Little Wonder 451
Lifter, Valve 450

M

Mallets, Body Workers' 434
Mallets, Lignumvitae 432
Mallets, Rawhide 406
Mallets, Rubber 405
Mallets, Wood 405
Marking Outfit 424
Measuring Tape 422
Micrometers 419
Milling Cutters 455-456
Mitre Boxes 449
Monkey Wrenches 442

N

Nail Set 424
Needles, Harness 476-478
Needles, Trimmers' 476-478
Needles, Upholsterers' 476-478
Nut Splitters 441

P

Pinch Bar 437
Pins, Upholstering 476
Pipe Cutters 456
Pipe Dies 454
Pipe Wrenches 442
Piston Pin Inserting Tool 451
Piston Ring Compressor 401-451
Piston Ring Tool 451
Planes, all kinds 449
Pliers Combination 468
Pliers, Crescent 410-411
Pliers, Cutting 468
Pliers, Glass 425
Pliers, Kraeuter 414-416
Pliers, Long Nose 468
Pliers, Webbing 475
Pliers, Wilde 411-412

INDEX--Continued

Plier, Utica 416
Pullers, Gear 431
Pullers, Wheel 430
Punches 437-441
Punches, Center 424
Punches, Revolving 475
Punches, Round Trimmers' 474
Punch & Chisel Set, Vlchek 459
Punch, Whitney 447
Putty Knife 467

R

Rasps 405
Reamers, all kinds 455-459
Reamers, Repairman 454
Reamers, Taper Pipe 452
Regulators, Upholsterer 476
Rim Wrench 463
Ring, Piston Compressor 401
Ripping Tool, Trimmers' 475
Rivet Buster 427
Rule, Folding 468
Rule, Glass Sliding 425-426
Rule, Lip Glass 427
Rule, Steel Flexible 439
Rules, Boxwood 448
Rules, Caliper 422-448
Rules, Flexible 420
Rules Hook 422
Rules, Spring Brass 448
Rules, Steel Machinist 422
Rules, Trimmers' 474
Rules, Zig Zag 448

S

Saw Blades, Hack 443
Saw Frames, Hack 442
Saws, Household 468
Saws, Metal Slitting 456
Scrapers, Carbon, Hunts' 427
Scraper, Glass 427
Scrapers, Bearing 418
Scrapers, Carbon 418
Scrapers, Paint 467
Scrapers, Wall 467
Scratch Awl 423
Screw Driver, Offset 427
Screw Drivers, all kinds 407-409
Screw Drivers, Crescent 412
Screw Extractor 444
Screw Plates 453-454
Scriber 423
Shears, Cutting 401
Shears, Trimmers' 473-474
Sledges 407
Snips, Crescent 413
Snips, Rupp 413
Snips, Trimmers' 473-474
Snips, Wiss 413
Socket Wrench Sets 460-464
Socket Wrench, Spintite 450
Soldering Furnace 428
Soldering Irons 428
Spintite Wrenches 450
Squares, Combination 421-422
Squares, Try 449
Square, Steel Carpenter 449
Stones, Carborundum 447
Stretcher Webbing 475
Stuffing Iron, Trimmers' 476

T

Tape Measuring 422
Taps, Hand 452
Taps, Pipe 452
Taps, Machine Srrew 452
Taps, Spark Plug 452
Taps, Stove Bolt 452
Taps, Taper 452
Tap Wrench 424
Tap Wrenches 452-453
Tool Kit 461
Tools, Trimmers' 469-478
Thread File 428
Tire Tool 444
Torches, Blow 445
Trimmers' Tools 469-478
Trowels 467
Try Squares 449
Tube Cutter 424
Tweezer, Locking 401

U

Upholsterer Pins 476
Upholsterer Regulators 476
Utilever Tool 401

V

Valve Grinder 450-451
Valve Lifter 450
Valve Lifter, Little Wonder 451
Valve Spring Compressor 451
Vise Jaws, Piston 446
Vises 446-447
Vixen Files 403

W

Webbing Pliers 475
Webbing Stretcher 475
Wheel Pullers 430
Whitney Punches 477
Wood Levels 448
Wrench Adj. Tap 424
Wrenches, Bonney 464-465-466
Wrenches, Crescent 412
Wrenches, Drain Plug 462
Wrenches, Drop Forged 460-464
Wrenches, Machinist Knife Handle 441
Wrenches, Monkey 442
Wrenches, Pipe 442
Wrenches, Spintite 450
Wrenches, Tap 452-453
Wrenches, Tappet 461-465
Wrench, Rim 463
Wrench Sets 460-464
Wrench Socket Set 467
Wrench Strap 463

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